



# Terwilliger Incident Decision

Published  
09/16/18 19:31

## Table of Contents

1. Decision .....	2
1.1. Decision Summary.....	2
1.2. Incident Information.....	3
1.3. Weather .....	7
1.4. Modeling.....	12
1.5. Risk .....	13
1.6. Benefits.....	19
1.7. Objectives .....	20
1.8. Course of Action .....	30
1.9. Cost .....	43
1.10. Rationale.....	44

# 1. Decision

## 1.1. Decision Summary

### Decision Information

NAME	VALUE
Published	09/16/2018 19:31 CDT
Estimated Cost	\$40,000,000
Incident Owner(s)	Robb Beery, Todd Erdody, Kristi Bulock
Editor(s)	Darren Cross, Eric Johnson, Holly Jewkes
Reviewer(s)	Darren Cross
Approver(s)	Holly Jewkes
Natl Preparedness Level	3

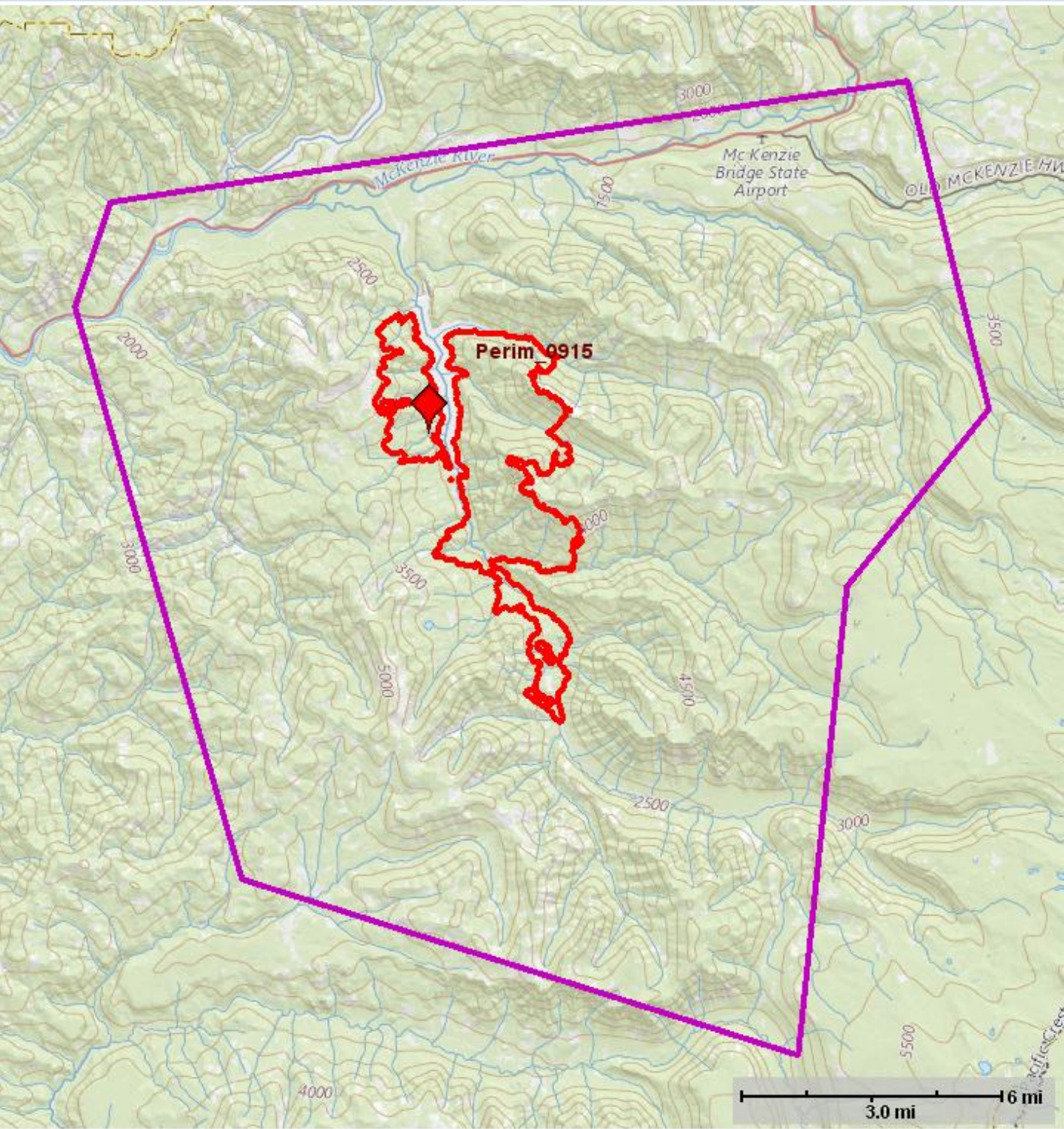
### Decision History

Editor Name	Action	Date (CDT)	Comment
Jewkes, Holly	Published	09/16/2018 19:31	
Jewkes, Holly	Approved	09/16/2018 19:31	
Cross, Darren	Accepted	09/16/2018 12:36	
Cross, Darren	Accepted	09/16/2018 12:35	
Bulock, Kristi	Review Requested	09/16/2018 12:14	
Bulock, Kristi	Review Requested	09/16/2018 12:13	Draft pdf of the decision document was shared via email and reviewed.
Bulock, Kristi	Created	09/15/2018 18:05	

## 1.2. Incident Information

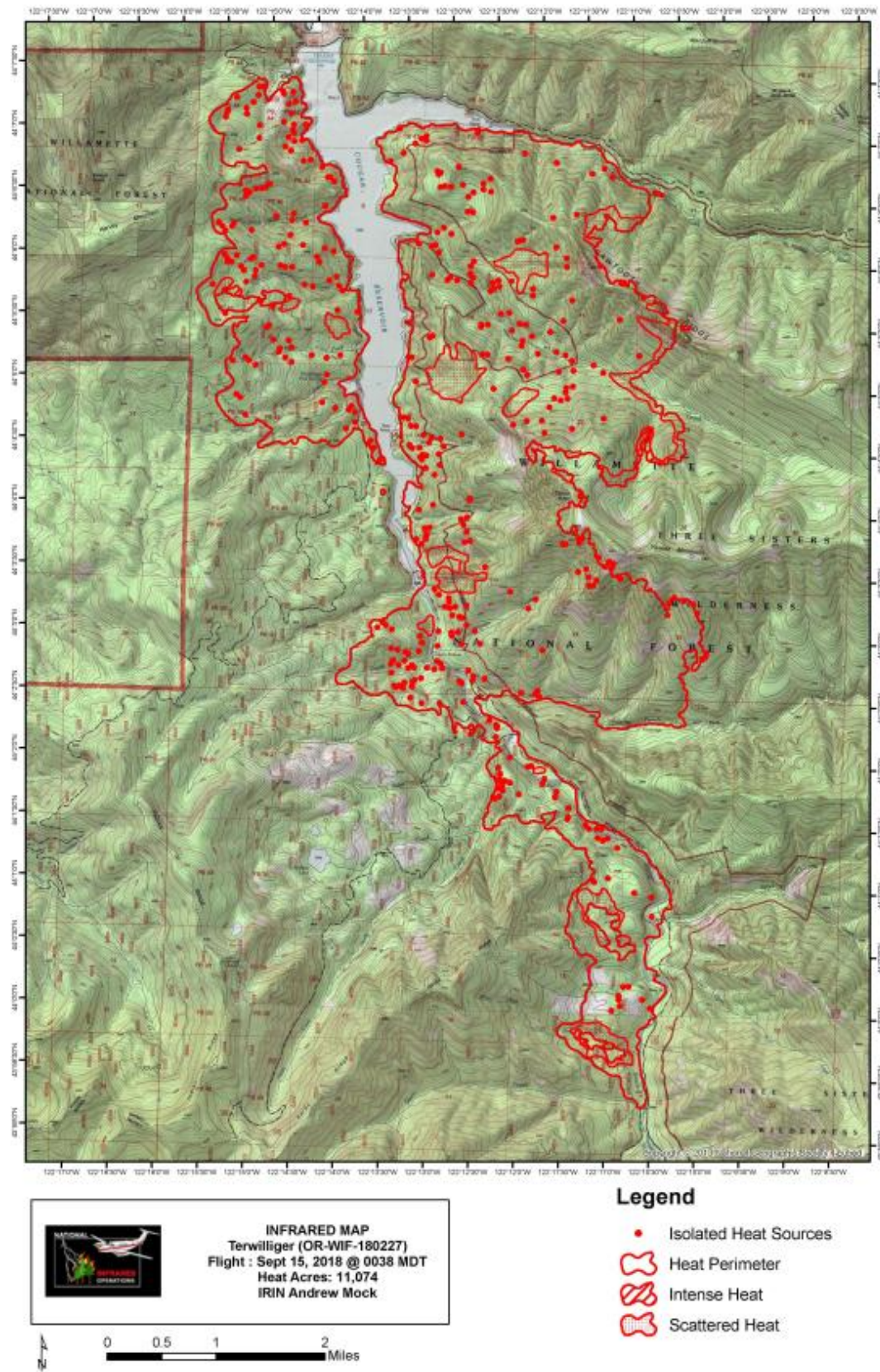
### Incident Information

NAME	VALUE
Incident Name	Terwilliger
Unique Fire Identifier	2018-ORWIF-180227
Responsible Unit Name	Willamette National Forest
FireCode	L3SB
P-Code	P6L3SB
Point of Origin	44.0836N / 122.2378 W
Incident Size	11,082acres
Latest Perimeter Size	11,082acres
Incident Cause	Unknown
Incident Type	Wildfire
Incident Discovery	08/19/2018 15:21
Contained	
Controlled	
Out	
Jurisdictional Unit	ORWIF - Willamette National Forest
Jurisdictional Agency(s)	USFS
Geographic Area (prep level)	Northwest (3)
Owner Name(s)	Robb Beery, Todd Erdody, Kristi Bulock



— Fire Perimeters    — Planning Areas    ♦ Point of Origin

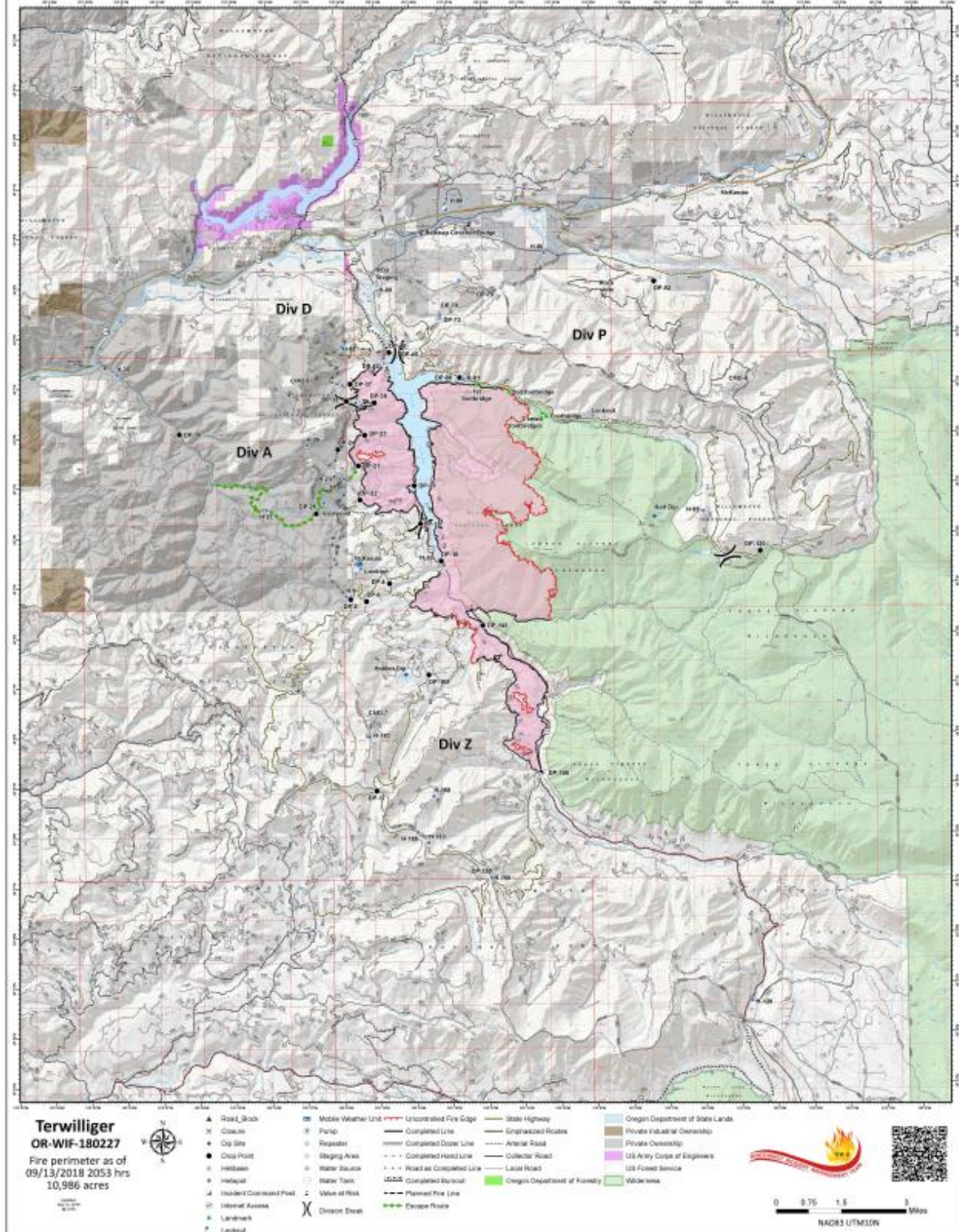
September 14th 2338 IR Map



[September 15th Terwilliger Operations Map](#)

# Terwilliger - Operations

09/15/2018



## 1.3. Weather

### Fire Weather Zone Forecast

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000  
FNUS56 KPQR 161530  
FWFPQR  
Fire Weather Planning Forecast for NW Oregon and SW Washington  
National Weather Service Portland OR  
825 AM PDT Sun Sep 16 2018  
...THUNDERSTORM THREAT TODAY...  
...DRIER PATTERN BEGINS MONDAY...  
.BROADCAST DISCUSSION...An upper level trough will move inland today, primarily over Washington and Northern Oregon. The cool and unstable air aloft will lead to the threat of thunderstorms today, mainly over the north half of the area. A drier and slightly warmer pattern develops Monday and continues through at least mid-week.  
.DISCUSSION...An upper level trough will move across Washington and Northern Oregon today. This will lead to unsettled conditions, with primary shower activity over the higher terrain. The south zones, especially the Central Oregon Cascades, may only get spotty wetting rain amounts. Thunderstorms are also possible today, generally north of a Newport to Corvallis line. Snow levels are near 6000 feet today, but may briefly drop to 5000 feet in heavier showers. A drier west flow aloft develops Monday and should hold through at least mid-week. This will bring drier conditions to the area, but daytime temperatures will remain at or slightly below normal. Longer range models show large differences, but it appears a more active weather pattern returns late next week.  
\$\$  
Haines Index values observed Sunday morning September 16  
Format: Combined Values (Stability Component + Moisture Component)  
Mid Elevation  
Salem...3 (2 + 1) Medford...3 (2 + 1)  
High Elevation  
Salem...3 (2 + 1) Medford...2 (1 + 1)  
\*\*\*Thunderstorms imply strong gusty winds \*\*\*  
\*\*\*Winds are 20-Foot 10 Minute Averages\*\*\*  
\*\*\*CWR-Chance of Wetting Rain 0.25 or greater\*\*\*  
\$\$  
ORZ608-171145-  
Willamette National Forest-  
825 AM PDT Sun Sep 16 2018  
.TODAY...  
\* Sky/Weather.....Mostly cloudy. Showers. A slight chance of thunderstorms in the afternoon.  
\* Max Temperature.....52-62, except 46-51 at pass level.  
\* Min Humidity.....50-70 percent, but to 80 percent ridges north.  
\* 20-Foot Winds.....  
\* Valleys/Lwr Slopes.....South to Southwest 5 to 8 mph.  
\* Ridges/Upr Slopes.....Southwest 8 to 14 mph with gusts up to 30 mph.  
\* CWR.....40 percent.  
\* LAL.....2.  
\* Haines Index (High).....2 (very low).  
\* Mixing Height.....5500 ft agl.  
\* Transport Winds.....Southwest 20 to 25 mph.  
.TONIGHT...  
\* Sky/Weather.....Mostly cloudy then becoming partly cloudy. A slight chance of showers in the evening.  
\* Min Temperature.....35-45, except 30-35 ridges and elevated valleys.  
\* Max Humidity.....90-100 percent.  
\* 20-Foot Winds.....  
\* Valleys/Lwr Slopes.....Southwest to West 3 to 6 mph early evening becoming drainage less than 5 mph.  
\* Ridges/Upr Slopes.....Southwest to West 6 to 10 mph with gusts up to 20 mph early evening becoming variable less than 5 mph.  
\* CWR.....0 percent.  
\* LAL.....1.  
\* Haines Index (High).....3 (very low).  
\* Mixing Height.....Near surface.  
\* Transport Winds.....West around 15 mph shifting to the east after midnight.  
.MONDAY...  
\* Sky/Weather.....Partly cloudy then becoming sunny.  
\* Max Temperature.....61-69, except 55-60 at pass level.  
\* Min Humidity.....33-48 percent.  
\* 20-Foot Winds.....  
\* Valleys/Lwr Slopes.....Up-slope to 6 mph.  
\* Ridges/Upr Slopes.....East to 5 mph becoming Northwest 4 to 7 mph in the afternoon.  
\* CWR.....0 percent.  
\* LAL.....1.

Fire Weather Zone Forecast

\* Haines Index (High).....4 (low).  
\* Mixing Height.....6500 ft agl.  
\* Transport Winds.....East around 5 mph shifting to the west in the afternoon.  
.Forecast days 3 through 7.....  
.MONDAY EVENING...Partly cloudy. Northwest wind to 5 mph.  
.TUESDAY THROUGH WEDNESDAY...Mostly clear. Lows 32 to 42. Highs 58 to 68. Northwest wind to 6 mph. Minimum humidity 25-45 percent.  
.THURSDAY...Partly cloudy. Lows 35 to 45. Highs 56 to 66. West wind to 6 mph. Minimum humidity 35-50 percent.  
.FRIDAY...A chance of showers. Mostly cloudy. Lows 35 to 45. Highs 57 to 67. West wind to 5 mph. Minimum humidity 40-55 percent.  
.SATURDAY...Partly cloudy. Lows 37 to 47. Highs 58 to 68. Terrain driven winds less than 5 mph. Minimum humidity 35-50 percent.  
&&  
Pebble           TEMPERATURE       /  
Fields       58     35     65   /     56     100     38  
Emigrant     60     40     66   /     52     100     42  
              62     41     68   /     45       89     35  
\$\$  
WEISHAAR

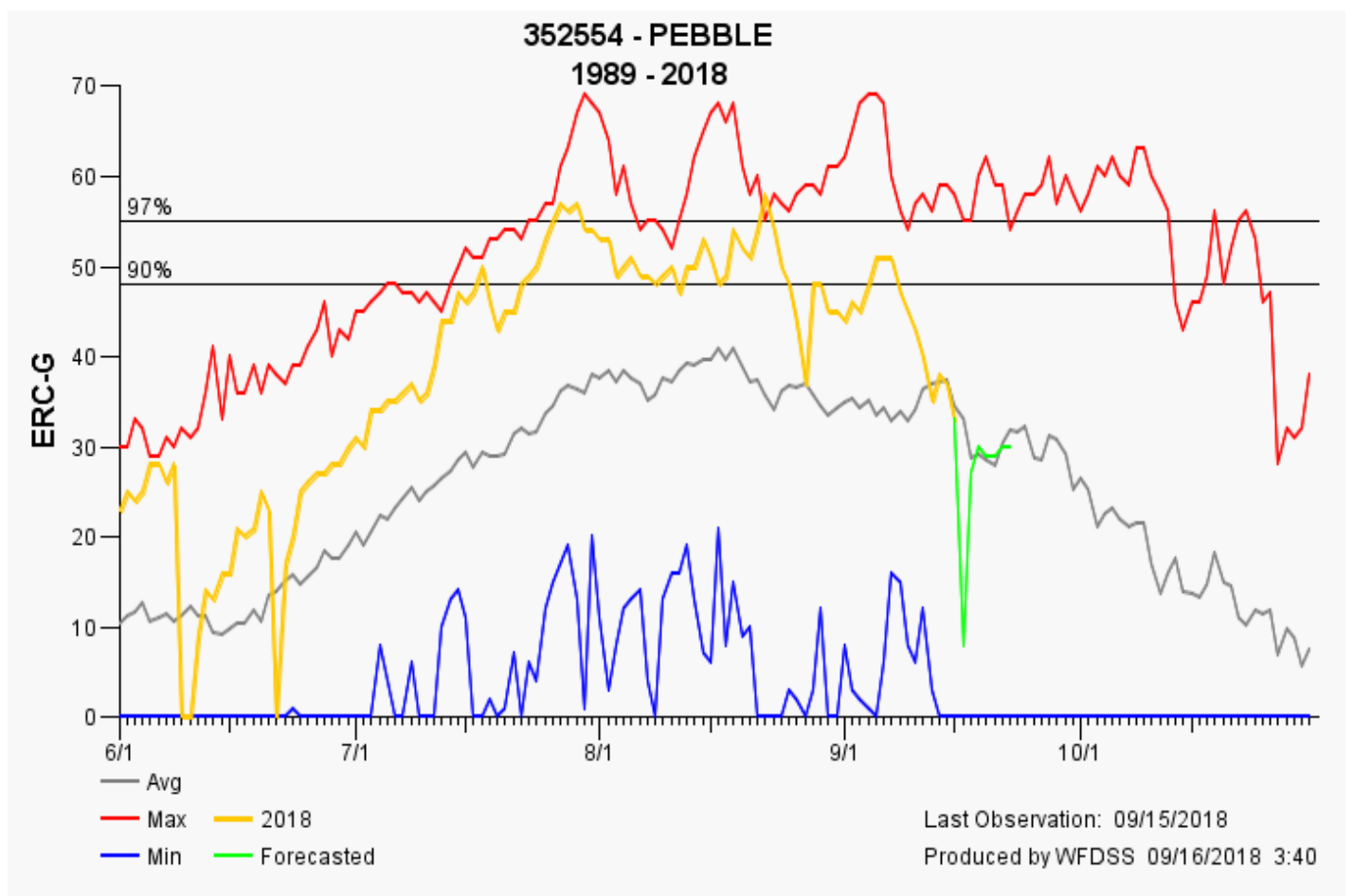
Predictive Services Significant Fire Potential

Incident Name Latitude Longitude Predictive Services Area  
Terwilliger 44.0836N 122.2378W NW04 - W4

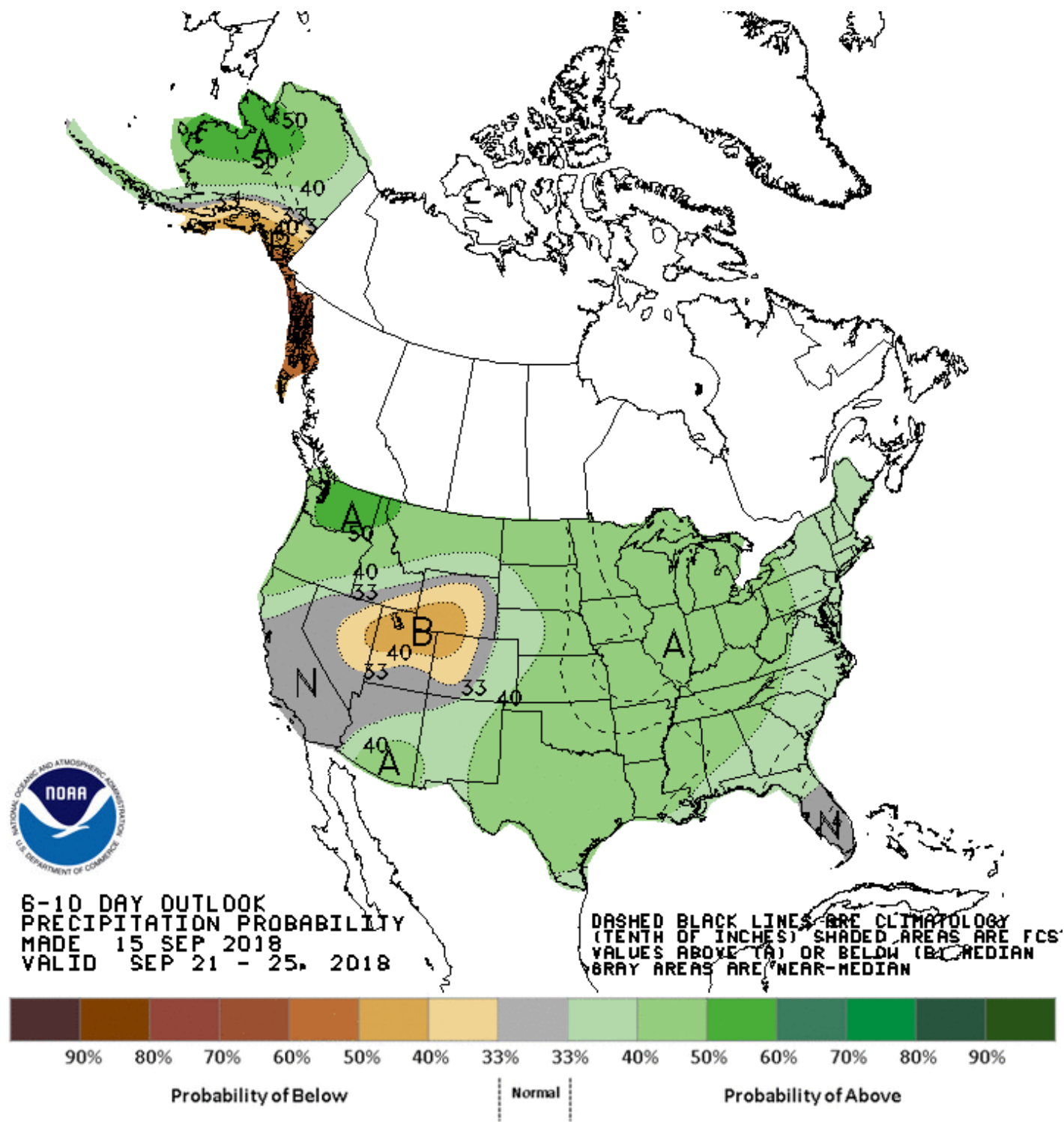
Sun Sep 16	Mon Sep 17	Tue Sep 18	Wed Sep 19	Thu Sep 20	Fri Sep 21	Sat Sep 22
<b>Significant Fire Potential</b>	<b>High Risk Burn Environment Triggers</b>		<b>High Risk Ignition Triggers</b>			
<div></div> Little or no risk	<div>H</div>	Hot or Dry	<div>L</div>	Lightning		
<div></div> Low Risk	<div>U</div>	Unstable	<div>R</div>	Recreation		
<div></div> Moderate Risk	<div>W</div>	Windy	<div>B</div>	Burn Environment		
<div></div> No Data	<div>D</div>	Dry				

High risk denotes either dry or very dry fuel conditions coupled with a potential ignition trigger and/or one or more critical burn environment factors.

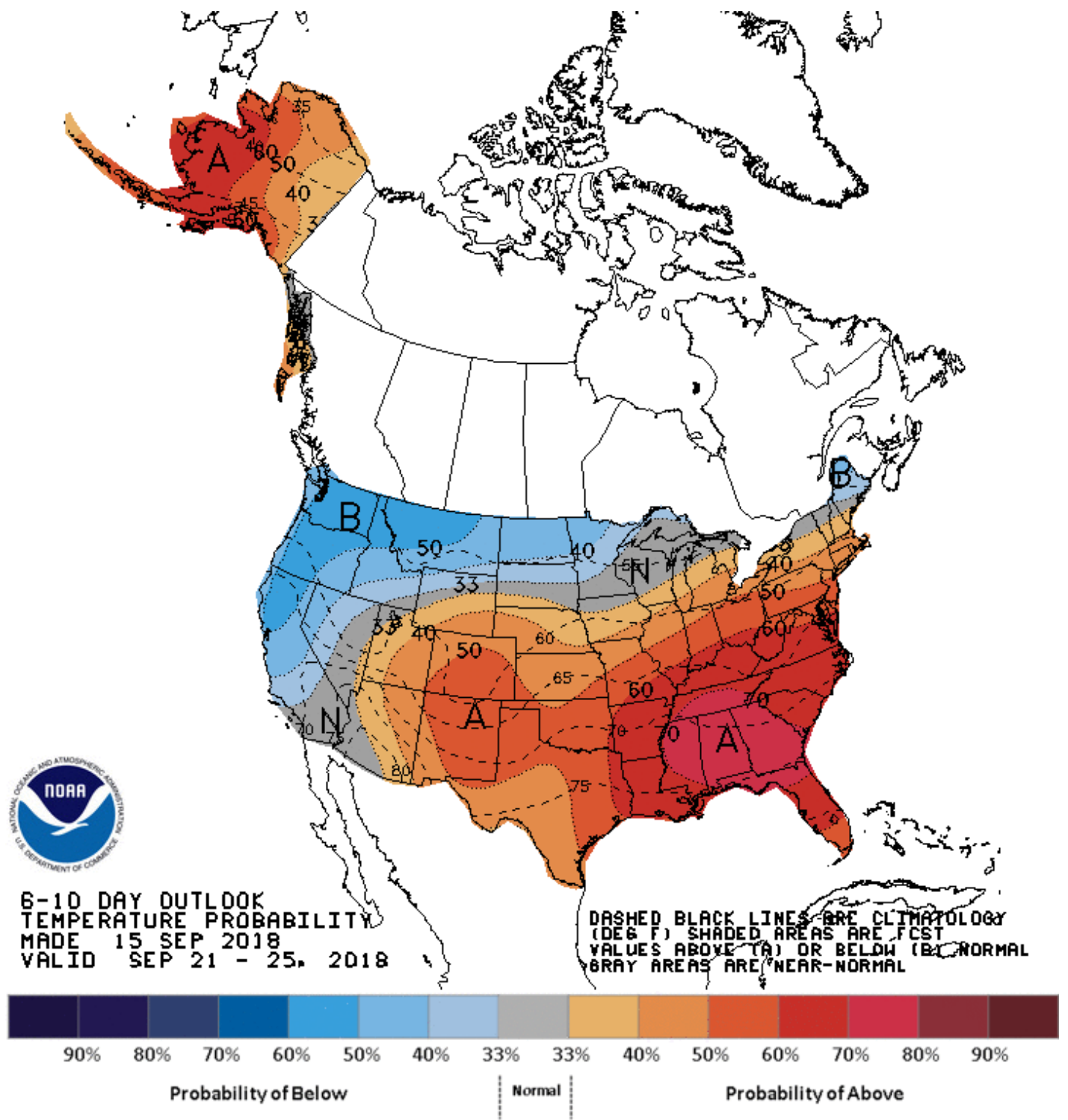
Forecasted ERC's from the Pebble RAWS



[6 to 10 Day Temperature Outlook](#)



[6 to 10 Day Precipitation Outlook](#)



## 1.4. Modeling

## 1.5. Risk

### Relative Risk

NAME	VALUE
Relative Risk	Moderate
Duration	Moderate
Saved By	Bullock, Kristi
Completed	09/16/2018 00:41 CDT

### Relative Risk Notes

Overall risk is moderate due to containment of fire spread near values at risk, the availability of resources due to a reduction in Regional and National fire activity, and the time of year as the probability of a season slowing/ season ending event increases with each day.

### Values Notes

Natural/Cultural, Resource/Infrastructure - moderate since fire spread towards Private commercial timber land has been contained. Social/Economic - Green Mountain and Lang Dam timber sale areas (11 timber sales for a total of 110 million board feet) adjacent. Critical Bull trout and spring Chinook salmon habitat, 8 campgrounds, and Terwilliger Hot Springs Day use area. Fire contained near some of these values but most public use areas remain closed for life safety. Smoke potential has moderated substantially. Proximity and threat of fire to values- This remains high for the USACE Cougar hydroelectric dam, moderate for campgrounds, critical Bull trout and spring Chinook salmon habitat, and low for Wilderness values. Fire spread in Wilderness is allowed to be contained by existing natural features reducing the potential for suppression activity impacts.

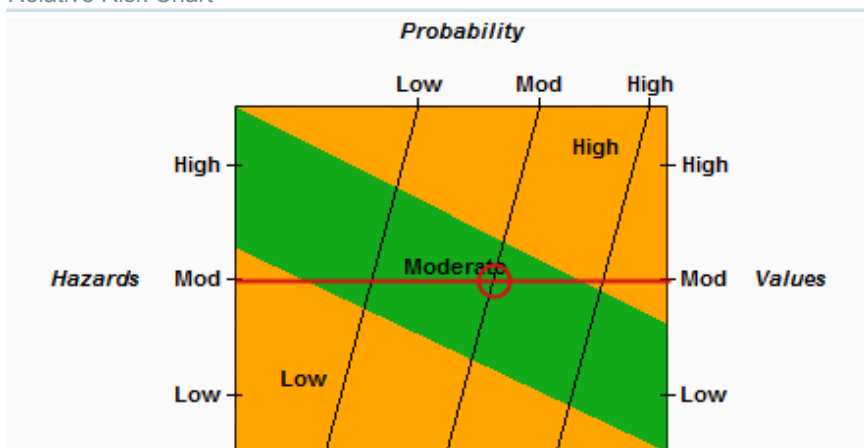
### Hazards Notes

Potential growth- potential for fire growth is moderate but moving towards low as season slowing/season ending events are more likely. Fire behavior - moderated due to higher RH values and cloud cover; understory burning with occasional torching and rollout that causes spotting. Fuel conditions - Nearly continuous fuel bed east of Cougar Reservoir. Fuels are old growth mixed conifer timber with a heavy dead and down component. Burn scars from 2017 offer natural fuel breaks to the east, within the Three Sisters Wilderness. Thousand-hour fuel moisture continues to increase with higher RH values, ERCs are trending downward.

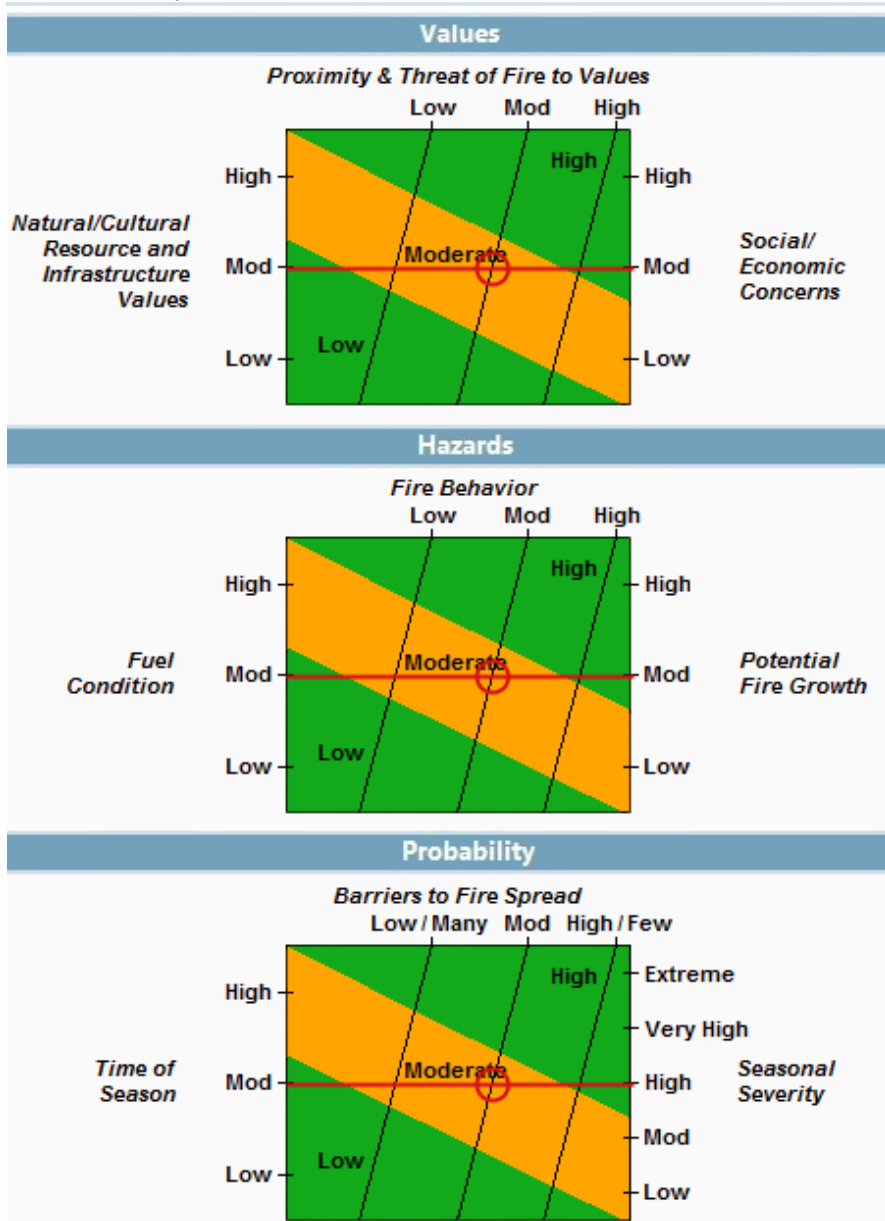
### Probability Notes

Seasonal severity - Planning Level 3 in NW Region, ERC's in the 70% range, intermittent periods of light rain has been recorded since 9/10. Cooler temps, higher RH values and shorter burn periods as days progress. Barriers to fire spread - There are natural barriers to fire spread, existing roads, and burned out containment line. Time of season - Moving towards end of typical fire season with season slowing weather events more likely.

### Relative Risk Chart



## Relative Risk Inputs



## Organization Assessment

NAME	VALUE
Unit Recommended Org Type 3	
Saved By	Bullock, Kristi
Completed	09/16/2018 00:45 CDT

## Organization Assessment Notes

Control opportunities exist to the north of the McKenzie River corridor. The majority of growth is expected to the east into the wilderness away from private land and infrastructure, this results in a decrease of incident complexity. Current complexity justifies transition from a Type 2 to a Type 3 Incident Management Organization.

## Relative Risk Notes

Overall risk is moderate due to containment of fire spread near values at risk, the availability of resources due to a reduction in Regional and National fire activity, and the time of year as the probability of a season slowing/ season ending event increases with each day.

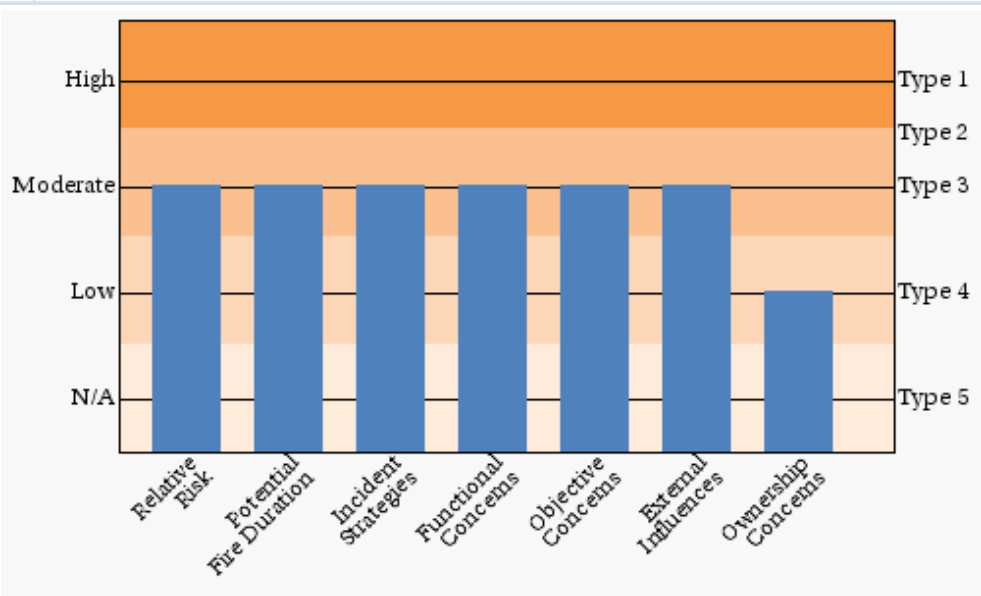
## Implementation Difficulty Notes

Terrain and fuels make access to areas of the fire difficult and unsafe within the Wilderness; fire spread will continue towards the east prolonging the fire duration. Forest closures are in place. Fire has been contained west of the 19 Road near private lands and other values which reduces overall complexity.

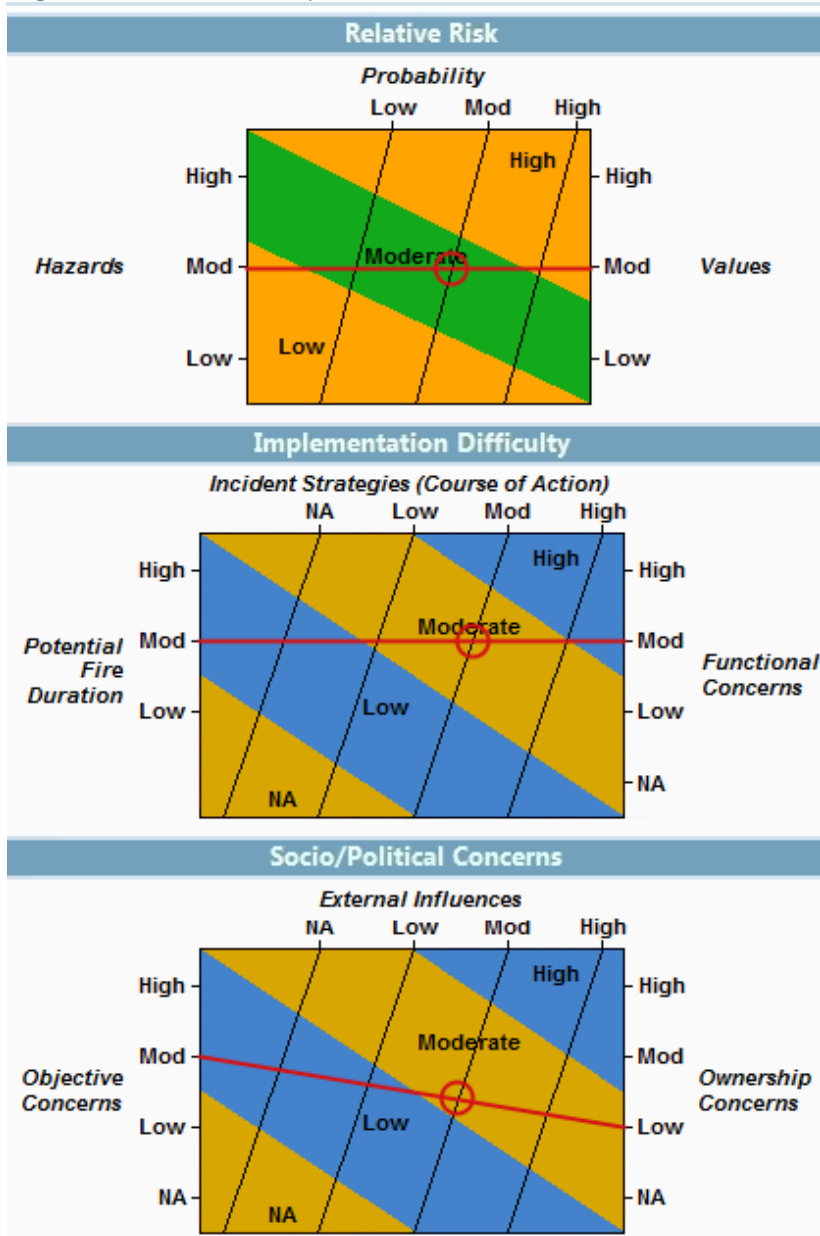
Socio/Political Concerns Notes

Fire is burning on a single unit and is not expected to leave that jurisdiction. Delegation from USFS is clear in intent: minimize spread to the west and north, while prioritizing Life First principles. High interest from the public due to area closures is mitigated by providing timely communications.

Organization Assessment Chart



Unit Recommended Org:Type 3



Planning Area Values Inventory Generated at 08/28/2018 15:32

NAME	VALUE
Planning Area Name	09/07/2018 11:16
Incident Name	Terwilliger
Planning Area Size	206,316 acres

Category	Value	Data Source	Currency	Coverage
Building Clusters: Lane, OR	739	US Counties / FGDC Cadastral Subcomm.		Available counties
Campgrounds	13	BLM (FAMS) and USFS INFRA	6/01/2018	National (BLM and USFS only)
Class 1 Airsheds	43,827 acres	NPS Air Resources Division	Various	National
Communication Towers	25	HIFLD	01/2018	National
County: Lane, OR	206,317 acres	US Census Bureau, TIGER/Line	2017	National

Category	Value	Data Source	Currency	Coverage
Electric Power Plants	1	HIFLD Open Data(CONUS,PR), HSIP GOLD(AK,HI)	06/09/2017 (CONUS,PR), 2015 (AK,HI)	National
Electric Sub Stations	4	HIFLD Open Data(CONUS,PR), HSIP GOLD(AK,HI)	07/24/2017 (CONUS,PR), 2015 (AK,HI)	National
Electric Transmission Lines	20.2 miles	HIFLD Open Data(CONUS,PR), HSIP GOLD(AK,HI)	07/24/2017 (CONUS,PR), 2015 (AK,HI)	National
Est Ground Evac Time: 1-2 Hrs	89,225 acres	National Park Service NIFC	11/01/2012	CONUS
Est Ground Evac Time: 2-4 Hrs	65,918 acres	National Park Service NIFC	11/01/2012	CONUS
Est Ground Evac Time: 4-6 Hrs	22,986 acres	National Park Service NIFC	11/01/2012	CONUS
Est Ground Evac Time: 6+ Hrs	17,828 acres	National Park Service NIFC	11/01/2012	CONUS
Estimated Population	12,658	LandScan USA / Oak Ridge Laboratory	04/08/2015	National
Habitat: Bull Trout	1,387 acres	US Fish and Wildlife Service	09/12/2017	National
Habitat: Bull Trout	58.8 miles	US Fish and Wildlife Service	9/12/2017	National
Habitat: Chinook Salmon	400.7 miles	US Fish and Wildlife Service	9/12/2017	National
Habitat: Northern Spotted Owl	59,194 acres	US Fish and Wildlife Service	09/12/2017	National
IRA: Chucksney Mountain Roadless Area	12,231 acres	USFS	06/01/2018	National
IRA: French Pete (A) Roadless Area	1,668 acres	USFS	06/01/2018	National
IRA: French Pete (B) Roadless Area	1,186 acres	USFS	06/01/2018	National
IRA: Mclennon Mountain Roadless Area	8,085 acres	USFS	06/01/2018	National
IRA: Mosquito Creek Roadless Area	335 acres	USFS	06/01/2018	National
IRA: Mt. Hagen Roadless Area	320 acres	USFS	06/01/2018	National
IRA: Rainbow Falls Roadless Area	65 acres	USFS	06/01/2018	National
IRA: Waldo - Moolack Roadless Area	159 acres	USFS	06/01/2018	National
Jurisdictional Agency: USACOE	241 acres	Various	05/29/2015	National
Jurisdictional Agency: USFS	175,207 acres	Various	05/29/2015	National
Natl Scenic Byways	48.5 miles	NPS	3/15/2018	National
ORROD - ODF Districts / South Cascade	206,317 acres	ORROD		Unit
Other Areas: Lamb Butte Scenic Area	399 acres	USGS PADUS 1.4	6/01/2018	National
Other Areas: Lowder Mountain Geological Area	142 acres	USGS PADUS 1.4	6/01/2018	National
Other Areas: Mckenzie River National Recreation Trail	7 acres	USGS PADUS 1.4	6/01/2018	National
Other Areas: Mckenzie, Oregon Wild and Scenic River	71 acres	USGS PADUS 1.4	6/01/2018	National
Other Areas: North Fork Middle Fork Willamette, Oregon Wild and Scenic River	470 acres	USGS PADUS 1.4	6/01/2018	National

Category	Value	Data Source	Currency	Coverage
Other Areas: Olallie Ridge Research Natural Area	732 acres	USGS PADUS 1.4	6/01/2018	National
Other Areas: Quaking Aspen Swamp Botanical Area	218 acres	USGS PADUS 1.4	6/01/2018	National
Other Areas: Rebel Rock Geological Area	760 acres	USGS PADUS 1.4	6/01/2018	National
Other Areas: South Fork Mckenzie, Oregon Wild And Scenic River Study Area	5,735 acres	USGS PADUS 1.4	6/01/2018	National
Other Areas: Yankee Mountain Scenic Area	490 acres	USGS PADUS 1.4	6/01/2018	National
Roads	25.0 miles	NAVTEQ	11/2012	National
USFS Buildings	73	USFS	02/02/2018	National
Wilderness: Three Sisters Wilderness	44,336 acres	Wilderness.net	10/31/2017	National
Wilderness: Waldo Lake Wilderness	223 acres	Wilderness.net	10/31/2017	National

#### Coverage of Values Queried that Produced No Results

BLM Buildings (BLM Lands), BLM Horse and Burro (National), BLM Oil / Gas Leases (National), BLM Range Allotments (National), Mines (National), NPS Buildings (All NPS), NRA (National), Natl Historic Trails (National), Natl Recreation Trails (National), Natl Scenic Trails (National), Oil and Gas Pipelines (National), Ozone Non-Attainment (National), Particulates Non-Attainment (National), Responsible Agency (AK, CA, ID, MT, NM, MN), Sage Grouse Habitat (National), TNC Lands (National), USFWS Trails (National), WSA (National)

## 1.6. Benefits

### Benefits

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Last updated by Kristi Bulock on 09/16/2018 00:04



### Comments

The fire burning on the east side of Cougar Reservoir is currently in the Three Sisters Wilderness area. The vegetation in this area is very heavy mixed conifer with a high loading of dead and down and duff layers up to 3 feet deep. The fire is burning mainly in the timber understory with limited individual tree torching. From visual observation it appears that this fire will consume much of the dead material in the understory and create a desirable mosaic vegetation pattern across the landscape.

## 1.7. Objectives

### Incident FMU/Strategic Objective Code List

Unit	FMU/Strat Obj Code	Acres
ORWIF	MA-1 - Wilderness	44,266
ORWIF	MA-1-6e - Wilderness - NfK MFk Wild & Scenic River	203
ORWIF	MA-10c - Dispersed Recreation-Semiprimitive Motorized_ No Timber Harvest	629
ORWIF	MA-10e - Dispersed Recreation-Semiprimitive Nonmotorized, No Timber Harvest	8,562
ORWIF	MA-11a - Scenic-Modification Middleground	20,113
ORWIF	MA-11c - Scenic-Partial Retention Middleground	11,540
ORWIF	MA-11d - Scenic-Partial Retention Foreground	3,928
ORWIF	MA-11e - Scenic-Retention Middleground	3,562
ORWIF	MA-11f - Scenic-Retention Foreground	5,758
ORWIF	MA-13b - F.S. Administrative Use Areas	218
ORWIF	MA-14a - General Forest-Intensive Timber Management	60,235
ORWIF	MA-4 - Research Natural Areas	720
ORWIF	MA-5a - Special Interest Areas	7,637
ORWIF	MA-6d - McKenzie Wild & Scenic River (recreation)	73
ORWIF	MA-6e - NfK MFk Wild & Scenic River	264
ORWIF	MA-7 - Old Growth Groves	286
ORWIF	MA-9b - Wildlife Habitat-Pileated Woodpecker	808
ORWIF	MA-9c - Wildlife Habitat-Marten	736
ORWIF	MA-9d - Wildlife Habitat-Special Areas	4,551

### Spatial Fire Planning Inventory

Category	Value	Data Source	Currency	Coverage
Aqua Retardant Avoidance	34,232 acres	USFS Enterprise Data Warehouse	04/01/2018	National (USFS Units only)
Mgmt Req: AMA	23,210 acres	ORWIF	Current	Unit Level
Mgmt Req: FMU01	129,575 acres	ORWIF	Current	Unit Level
Mgmt Req: FMU02	44,473 acres	ORWIF	Current	Unit Level
Mgmt Req: IRA	24,047 acres	ORWIF	Current	Unit Level
Mgmt Req: LSR North	34,563 acres	ORWIF	Current	Unit Level
Mgmt Req: LSR South	7,335 acres	ORWIF	Current	Unit Level
Mgmt Req: NSO CHU North	54,040 acres	ORWIF	Current	Unit Level
Mgmt Req: NSO CHU South	5,128 acres	ORWIF	Current	Unit Level
Retardant Avoidance	94 acres	USFS Enterprise Data Warehouse	04/01/2018	National (USFS Units only)

### Incident Objective List

Activated	Incident Objective
09/07/2018	<p>Incident response personnel and public safety will always be the highest priority over all other incident objectives.</p> <p>Utilize a risk management process to ensure that incident resources are only committed to operations where they have the highest probability of success, balancing exposure with risk.</p> <p>Protect values at risk, including private timber in-holdings, waterways, structures, roadless area, wilderness, and Forest Service 19 National Scenic Byway, by limiting fire severity and fire suppression activity impacts.</p> <p>Utilize approved fire suppression actions to minimize impacts to sensitive habitat for bull trout, Chinook salmon, and spotted owl.</p> <p>Maintain and develop partnerships/relationships with all affected agencies, landowners and stakeholders by providing timely communications.</p>

Activated	Incident Requirement
08/28/2018	Coordinate and communicate all proposed actions on the landscape with McKenzie River Ranger District Resource Advisors, private landowners and jurisdictional agencies.

## Strategic Objective List

Unit	Shape/ FMU	Activated	Strategic Objective
ORWIF	<Unit>	06/20/2017	Protection of human life and safety is the first priority for all actions taken on a wildfire and can overrule all other strategic and incident objectives and management and incident requirements.
ORWIF	MA-1	04/14/2016	<p><b>MA-1 Wilderness</b></p> <p><u>Goal Statement-</u> MA-1 includes all designated Wilderness on the forest. MA is stratified into 4 subdivisions based on the Wilderness Resource Spectrum (WRS). Each WRS strata are individual MA designations with individual goals. See LRMP for specific goals by strata.</p> <p><u>Standards and Guidelines-</u></p> <ul style="list-style-type: none"> <li>• Fires resulting from human activities shall be prevented, controlled, and suppressed.</li> <li>• Unplanned ignitions from natural causes that occur in Wilderness will be considered wildfire and shall be controlled or suppressed unless the decision is made to declare it a prescribed natural fire. A fire may be declared a prescribed natural fire once the prescribed natural fire direction has been approved in the Fire Management Action Plan.</li> <li>• Suppression practices should have the least physical impact on the land consistent with other management considerations. Preference should be given to the use of natural fuel breaks.</li> <li>• Fire management activities with Wilderness shall be compatible with Wilderness management objectives. Preference should be given to methods and equipment that minimize: alteration of the landscape; disturbance of surface vegetation and soil; disturbance of visitor solitude; reduction of visibility; adverse effects on air quality; disturbance to wildlife habitat or cultural resources.</li> <li>• After the fire is declared out, appropriate actions should be taken to rehabilitate and restore the site to a natural condition.</li> <li>• The need for mechanized equipment (portable pumps, power saws, etc.) in suppression efforts shall be determined by a relative risk assessment.</li> <li>• The use of tractors or ground disturbing mechanized equipment shall be approved by the Regional Forester.</li> <li>• The use of helicopters shall be approved by the Forest Supervisor.</li> </ul>
ORWIF	MA-1-6e	04/14/2016	<p><b>MA-1 -6e Wilderness - Wild &amp; Scenic River - Wild</b></p> <p><u>Goal Statement-</u> Wild River Management Area will be managed to:</p> <ul style="list-style-type: none"> <li>• Preserve its essentially primitive character and outstandingly remarkable values.</li> <li>• Maintain and improve the quality of water which enters the river.</li> <li>• Maintain and improve fish and wildlife habitat.</li> <li>• Provide opportunities for river-oriented recreation which are dependent on free-flowing conditions of the river consistent with the primitive character of its surroundings.</li> <li>• Comply with all the standards for Wild Rivers as specified in FSH 1909.12, Chapter 8 (1987) and the Wilderness Preservation Act of 1964.</li> </ul> <p><u>Standards and Guidelines-</u></p> <ul style="list-style-type: none"> <li>• Suppression strategies, practices and activities shall be limited to those which have minimal effects on Wild river values.</li> <li>• Fires should be suppressed at the lowest acreage practicable.</li> </ul>
ORWIF	MA-10c	04/14/2016	<b>MA-10c Dispersed Recreation-Semiprimitive Motorized_ No Timber Harvest</b>

Unit	Shape/ FMU	Activated	Strategic Objective
ORWIF	MA-10e	04/14/2016	<p><b><u>Goal Statement-</u></b></p> <ul style="list-style-type: none"> <li>• Provide a full spectrum of recreation opportunities meeting the criteria for a Semiprimitive Motorized experience through the management of user activities and natural resource settings.</li> <li>• Provide users the opportunity to experience a sense of solitude, tranquility, self-reliance and closeness to nature.</li> <li>• Provide for the conservation of unique geographic, topographic, biological, and ecological processes, as well as significant scenic, wildlife, recreation, and watershed values.</li> </ul> <p><b><u>Standards and Guidelines-</u></b></p> <ul style="list-style-type: none"> <li>• Suppression strategies, practices and activities shall be limited to those which have minimal effects on Semiprimitive Motorized recreation values.</li> </ul>
			<p><b>MA-10e Dispersed Recreation-Semiprimitive Nonmotorized, No Timber Harvest</b></p> <p><b><u>Goal Statement-</u></b></p> <ul style="list-style-type: none"> <li>• Provide a full spectrum of recreation opportunities meeting the criteria for a Semiprimitive Nonmotorized experience through the management of user activities and natural resource settings.</li> <li>• Provide users the opportunity to experience a sense of solitude, tranquility, self-reliance and closeness to nature.</li> <li>• Provide for the conservation of unique geographic, topographic, biological, and ecological processes, as well as significant scenic, wildlife, recreation, and watershed values.</li> </ul> <p><b><u>Standards and Guidelines-</u></b></p> <ul style="list-style-type: none"> <li>• Suppression strategies, practices and activities shall be limited to those which have minimal effects on Semiprimitive Nonmotorized recreation values.</li> </ul>
			<p><b>MA-11a Scenic-Modification Middleground</b></p> <p><b><u>Goal Statement-</u></b></p> <ul style="list-style-type: none"> <li>• Create and maintain desired visual characteristics of the forest landscape through time and space.</li> <li>• Visually sensitive landscapes will be managed for a modest level of scenic quality.</li> <li>• This area will also be managed for other resource goals including timber production, recreation opportunities, watershed protection, and maintenance of wildlife habitats.</li> </ul>
			<p><b>MA-11c Scenic-Partial Retention Middleground</b></p> <p><b><u>Goal Statement-</u></b></p> <ul style="list-style-type: none"> <li>• Create and maintain desired visual characteristics of the forest landscape through time and space.</li> <li>• Visually sensitive landscapes will be managed for a modest level of scenic quality.</li> <li>• This area will also be managed for other resource goals including timber production, recreation opportunities, watershed protection, and maintenance of wildlife habitats.</li> </ul>
			<p><b>MA-11d Scenic-Partial Retention Foreground</b></p> <p><b><u>Goal Statement-</u></b></p> <ul style="list-style-type: none"> <li>• Create and maintain desired visual characteristics of the forest landscape through time and space.</li> <li>• Visually sensitive landscapes will be managed for a modest level of scenic quality.</li> <li>• This area will also be managed for other resource goals including maintenance of wildlife habitats, recreation opportunities, watershed protection, and timber production.</li> </ul>
ORWIF	MA-11e	04/14/2016	<p><b>MA-11e Scenic-Retention Middleground</b></p>

Unit	Shape/ FMU	Activated	Strategic Objective
ORWIF	MA-11f	04/14/2016	<p><b><u>Goal Statement-</u></b></p> <ul style="list-style-type: none"> <li>• Create and maintain desired visual characteristics of the forest landscape through time and space.</li> <li>• Visually sensitive landscapes will be managed for a modest level of scenic quality.</li> <li>• This area will also be managed for other resource goals including maintenance of wildlife habitats, recreation opportunities, watershed protection, and timber production.</li> </ul> <p><b>MA-11f Scenic-Retention Foreground</b></p> <p><b><u>Goal Statement-</u></b></p> <ul style="list-style-type: none"> <li>• Create and maintain desired visual characteristics of the forest landscape through time and space.</li> <li>• Visually sensitive landscapes will be managed for a modest level of scenic quality.</li> <li>• This area will also be managed for other resource goals including maintenance of wildlife habitats, recreation opportunities, watershed protection, and timber production.</li> </ul>
			<p><b>MA-13b F.S. Administrative Use Areas</b></p> <p><b><u>Goal Statement-</u></b></p> <ul style="list-style-type: none"> <li>• Provide safe, adequate administrative facilities from which to accomplish land and resource management and protection objectives.</li> <li>• Locate and design administrative facilities in a manner consistent with public needs and to the extent feasible compatible with management area allocation of the occupied site.</li> </ul> <p><b><u>Standards and Guidelines-</u></b></p> <ul style="list-style-type: none"> <li>• Suppression strategies, practices, and activities shall take into account public and firefighter safety, the relative value of the structure and its contents, and the objectives of the adjacent management area.</li> </ul>
ORWIF	MA-14a	04/14/2016	<p><b>MA-14a General Forest-Intensive Timber Management</b></p> <p><b><u>Goal Statement-</u></b></p> <ul style="list-style-type: none"> <li>• Produce an optimum and sustainable yield of timber based on the growth potential of the land that is compatible with multiple use objectives and meets environmental requirements for soil, water, air and wildlife habitat quality.</li> <li>• Provide many opportunities for public use and enjoyment.</li> </ul>
			<p><b>MA-4 Research Natural Areas</b></p> <p><b><u>Goal Statement-</u></b> Preserve naturally occurring physical and biological units where natural conditions are maintained insofar as possible for the purposes of:</p> <ul style="list-style-type: none"> <li>• Comparison with those lands influenced by man.</li> <li>• Provision of educational and research areas for ecological and environmental studies.</li> <li>• Preservation of gene pools for typical as well as rare and endangered plants and animals.</li> </ul> <p><b><u>Standards and Guidelines-</u></b></p> <ul style="list-style-type: none"> <li>• If fire is used to perpetuate a series, it should mimic a natural fire, but with prudent measures to avoid catastrophe.</li> <li>• Suppression strategies, practices and activities shall be limited to those which have minimal impacts to RNA values.</li> <li>• Chemical fire retardants shall be avoided.</li> <li>• Fuels normally should be allowed to accumulate at natural rates unless they threaten the objectives of the RNA.</li> </ul>
ORWIF	MA-5a	04/14/2016	<p><b>MA-5a Special Interest Areas</b></p>

Unit	Shape/ FMU	Activated	Strategic Objective
ORWIF	MA-6d	04/14/2016	<p><b>Goal Statement-</b></p> <ul style="list-style-type: none"> <li>• Preserve lands in Special Interest Areas (SIAs) that contain exceptional scenic, cultural, biological, geological or other unusual characteristics.</li> </ul> <p><b>Standards and Guidelines-</b></p> <ul style="list-style-type: none"> <li>• Suppression strategies, practices and activities shall be limited to those which have minimal effect on SIA values.</li> <li>• Fires should be suppressed at the lowest acreage practicable.</li> </ul>
			<p><b>MA-6d McKenzie Wild &amp; Scenic River - Recreation</b></p> <p><b>Goal Statement-</b> Recreation River Management Area will be managed to:</p> <ul style="list-style-type: none"> <li>• Provide opportunities for a wide range of recreation activities which are oriented to the river and enhanced by its free-flowing conditions.</li> <li>• Maintain and improve the quality of water which enters the river.</li> <li>• Maintain and improve fire and wildlife habitat.</li> <li>• Maintain or enhance the quality of the scenery, cultural, and ecological values.</li> <li>• Utilize other resources and permit other activities to the extent that they do not lower the quality of the wildlife habitat, river fisheries, scenic attractions, or recreation values.</li> <li>• Comply with all standards for Recreation Rivers as specified in FSH 1909.12, Chapter 8 (1987).</li> </ul> <p><b>Standards and Guidelines-</b></p> <ul style="list-style-type: none"> <li>• Suppression strategies, practices and activities shall be limited to those which have minimal effects on Recreation river values.</li> <li>• Fires should be suppressed at the lowest acreage practicable.</li> </ul>
			<p><b>MA-6e Nfk MFk Wild &amp; Scenic River</b></p> <p><b>Management Direction-</b></p> <ul style="list-style-type: none"> <li>• All wildfires will be suppressed.</li> <li>• Fire suppression activities will be conducted so that the outstandingly remarkable values (ORVs) are protected or enhanced. Components of ORVs that will require emphasis when tactics are developed include riparian vegetation, stand components left for diversity, recreation developments, and highly visible areas associated with trails, roads and recreation sites.</li> <li>• Use of tractors or other heavy equipment for fireline construction or other fire related activities, including opening of roads intended for closure, is undesirable.</li> <li>• Suppression activities in those portions of the river corridor inside designated wilderness will be conducted in accordance with the LRMP.</li> <li>• The District Ranger or Forest Supervisor will ensure that suppression activities fully consider the effects on ORVs when developing or approving WFDSS decisions.</li> </ul>
ORWIF	MA-7	04/14/2016	<p><b>MA-7 Old Growth Groves</b></p> <p><b>Goal Statement-</b></p> <ul style="list-style-type: none"> <li>• Preserve representative ecosystem of old-growth forests of the Western Cascades.</li> <li>• Provide opportunities for the public to enjoy the educational, aesthetic and spiritual values associated with the old-growth timber successional stage.</li> </ul> <p><b>Standards and Guidelines-</b></p> <ul style="list-style-type: none"> <li>• Suppression strategies, practices and activities shall be limited to those which have minimal impacts to old-growth grove values.</li> </ul>
			<p><b>MA-9b Wildlife Habitat-Pileated Woodpecker</b></p>

Unit	Shape/ FMU	Activated	Strategic Objective
ORWIF	MA-9c	04/14/2016	<p><b>Goal Statement-</b></p> <ul style="list-style-type: none"> <li>Protect mature old-growth habitat for all dependent flora and fauna by providing habitat networks for the pileated woodpecker, an ecological indicator species.</li> </ul> <p><b>Standards and Guidelines-</b></p> <ul style="list-style-type: none"> <li>Suppression strategies, practices and activities shall be limited to those which have minimal effects to PWA values.</li> <li>Fires should be suppressed at the lowest acreage practicable.</li> </ul>
			<p><b>MA-9c Wildlife Habitat-Marten</b></p> <p><b>Goal statement-</b></p> <ul style="list-style-type: none"> <li>Protect mature and old-growth habitat for all dependent flora and fauna by providing habitat networks for the marten, an ecological indicator species.</li> </ul> <p><b>Standards and Guidelines-</b></p> <ul style="list-style-type: none"> <li>Suppression strategies, practices and activities shall be limited to those which have minimal effects of MHA values.</li> <li>Fires should be suppressed at the lowest acreage practicable.</li> </ul>
ORWIF	MA-9d	04/14/2016	<p><b>MA-9d Wildlife Habitat-Special Areas</b></p> <p><b>Goal statement-</b></p> <ul style="list-style-type: none"> <li>Protect or enhance unique wildlife habitats and botanical sites which are important components of healthy, biologically diverse ecosystems.</li> </ul> <p><b>Standards and Guidelines-</b></p> <ul style="list-style-type: none"> <li>Suppression strategies, practices and activities shall be limited to those which have minimal effects on special habitat values.</li> <li>Fires should be suppressed at the lowest acreage practicable.</li> </ul>

## Management Requirement List

Unit	Shape/FMU	Activated	Management Requirement
	Aqua Retardant Avoidance	06/18/2013	The aerial application of fire retardant is allowed for fighting fires. Aerially delivered fire retardant should not be applied to any mapped aquatic avoidance area, waterway or buffer. The only exception to using aerially applied fire retardant in avoidance areas is <b>for the protection of human life or public safety</b> . The Incident Commander is the decision maker. Information concerning the Record of Decision for the Aerial Application of Fire Retardant is available at <a href="https://www.fs.fed.us/fire/retardant/index.html">https://www.fs.fed.us/fire/retardant/index.html</a>
	Retardant Avoidance	05/31/2012	The aerial application of fire retardant is allowed for fighting fires. Aerially delivered fire retardant should not be applied to any mapped terrestrial avoidance area, waterway or buffer. The only exception to using aerially applied fire retardant in avoidance areas is <b>for the protection of human life or public safety</b> . The Incident Commander is the decision maker. Information concerning the Record of Decision for the Aerial Application of Fire Retardant is available at <a href="https://www.fs.fed.us/fire/retardant/index.html">https://www.fs.fed.us/fire/retardant/index.html</a>
ORWIF	<Unit>	04/14/2016	<p><b>Special Interest Areas</b></p> <p>Use methods and equipment that will minimize disturbance to the special features of the area. Locate fire camps, helispots, and other temporary facilities or improvements outside the area if possible.</p>
ORWIF	<Unit>	04/14/2016	<p><b>Riparian Reserves- NORTHWEST FOREST PLAN</b></p> <p>The goal of wildfire suppression in Riparian Reserves is to limit wildfire size. When Watershed and/or Landscape Analysis are completed and approved, natural fires ignited by lightning may be managed to meet Riparian Reserve</p>

Unit	Shape/FMU	Activated	Management Requirement
			<p>resource objectives described therein.</p> <p>[Escaped fire] strategies should recognize the role of fire in ecosystem management and identify those instances where suppression activities could be damaging to long term ecosystem function.</p> <p>Design suppression strategies to minimize the disturbance of ground cover and vegetation.</p> <p>Rapidly extinguishing smoldering coarse woody debris and duff should be considered to preserve these ecosystem elements. To the greatest extent possible, avoid placement of suppression lines in areas where in-stream and floodplain large wood would need to be cut due to subsequent impacts on aquatic organism habitat.</p> <p>Locate incident bases, camps, helibases, staging areas, helispots and other centers for incident activities outside of the Riparian Reserves. An exemption may be granted by a resource advisor if no other suitable location exists. The advisor will prescribe the location, use condition, and rehabilitation requirements.</p> <p>Water drafting sites should be located and managed to minimize adverse effects on riparian habitat and water quality. Immediately establish an emergency team to develop a rehabilitation plan needed to attain Aquatic Conservation Strategy requirements whenever Riparian Reserves are significantly damaged by wildfire.</p> <p>Minimize delivery of chemical retardant, foam, or additives to surface waters. An exception may be warranted in situations where overriding immediate safety imperatives exist, or, following review and recommendation by a resource advisor, when an escape will cause more long-term damage (amended by the 2008 USFS Aerial Application of fire Retardant Record of Decision, see the Nationwide Management Requirements for Aquatic and Terrestrial Retardant Avoidance).</p> <p>Consult with READ personnel before reopening mid-slope or riparian roads in Riparian Reserves that have been stored or decommissioned for aquatic resource benefit.</p>
ORWIF	<Unit>	04/18/2016	<p><b>CULTURAL RESOURCES</b></p> <p><u>Standards and Guidelines-</u></p> <ul style="list-style-type: none"> <li>• Measures shall be developed to protect significant sites from adverse effects due to ground disturbing and other activities.</li> <li>• Eligible cultural resources shall be protected from depredation and natural destruction.</li> <li>• Eligible historic sites and historic trails shall be maintained and/or adverse effects shall be mitigated.</li> <li>• Mitigation measures established during the environmental analysis of a given project shall be monitored to maintain a current record of site conditions. Tracking of the mitigation plan is necessary during and following ground-disturbing activities.</li> </ul> <p>Consult qualified archaeologist on the unit to determine potential for impacts to cultural resources;</p> <p>Assign a qualified archeologist as a resource advisor to any wildfire where there is a considerable potential for risk to significant cultural resources.</p>

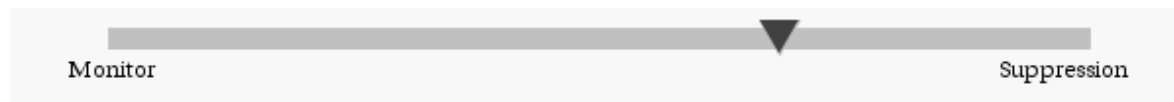
Unit	Shape/FMU	Activated	Management Requirement
			<p>Utilize local Heritage specialists, if possible, prior to engagement and in the planning process to identify categories of archaeological sites present and recommend the appropriate level of protection in accordance with Forest Service Manual 2360, (Emergency Undertaking) clauses of Section 106 of the National Historic Preservation Act.</p> <p>Consult local cultural resource specialists and Native American (tribal) representatives, if possible, prior to engagement and in the planning process to identify Native American traditional cultural areas, and to identify protection measures.</p> <p>Utilize local tribal fire crews and resource advisors when available.</p>
ORWIF	AMA	04/14/2016	<p><b>Adaptive Management Area</b></p> <p>Design fuel treatment and fire suppression strategies, practices, and activities to meet Aquatic Conservation Strategy (ACS) objectives, and to minimize disturbance of riparian ground cover and vegetation. Strategies should recognize the role of fire in ecosystem function and identify those instances where fire suppression or fuels management activities could be damaging to long-term ecosystem function.</p> <p>Location incident bases, camps, helibases, staging areas, helispots and other center for incident activities outside Riparian Reserves. If the only suitable location for such activities is within the Riparian Reserve, an exemption may be granted following review and recommendation by a resource advisor. The advisor will prescribe the location, use conditions, and rehabilitation requirements. Use an interdisciplinary team to predetermine suitable incident base and helibase locations.</p> <p>Minimize delivery of chemical retardant, foam, or additives to surface waters. An exception may be warranted in situations where overriding immediate safety imperatives exist, or, following review and recommendation by a resource advisor, when an escape would cause more long-term damage.</p> <p>Immediately establish an emergency team to develop a rehabilitation treatment plan needed to attain ACS objectives whenever Riparian Reserves are significantly damaged by wildfire or a prescribed fire burning outside of prescribed parameters.</p>
ORWIF	FMU01	04/14/2016	<p><b>Forest Wide Standards and Guidelines – General Forest</b></p> <ul style="list-style-type: none"> <li>• All wildfires shall receive an Appropriate Suppression Response. The associated strategies and tactics should be the most cost-effective commensurate with the objectives for the management area on which the fire occurs.</li> <li>• An on-site analysis should be utilized to identify the appropriate fire suppression strategy which is most cost-effective and environmentally acceptable.</li> <li>• A control strategy shall be utilized where public or firefighter safety is threatened.</li> </ul>
ORWIF	FMU02	04/14/2016	<p><b>Forest Wide Standards and Guidelines – Wilderness</b></p> <ul style="list-style-type: none"> <li>• All naturally occurring fires in Wilderness shall be treated as wildfires unless an approved Wilderness Fire Management Implementation Plan exists (FMS 2324).</li> <li>• In suppression of wildfire, preference should be given to those suppression methods and strategies that result in limiting the burned area to within the Wilderness boundary. Other factors to consider include cost-effectiveness, the preservation of the Wilderness values, and the threat to people, other resource values or private property.</li> </ul>

Unit	Shape/FMU	Activated	Management Requirement
			<ul style="list-style-type: none"> <li>• All fires that do not meet the standards set forth for prescribed fire shall be suppressed in an appropriate manner</li> <li>• A Control Strategy shall be utilized where public or firefighter safety is threatened.</li> <li>• A WFDSS decision shall be prepared for a wildfire which is not contained/controlled at 10 acres or less in size or any fire if containment is not expected prior to the second burning period.</li> <li>• Suppression practices should have the least physical impact on the land consistent with other management considerations. Preference will be given to use of natural fuel breaks.</li> <li>• Crew camps should be small and located away from popular camping areas. Camps should be rehabilitated after the fire, removing all litter, hose, gas cans, or other evidence of human occupation.</li> <li>• An assessment of the environmental impacts should be made before using retardants to determine if the advantages outweigh the disadvantages.</li> <li>• Helispots requiring no ground disturbance should be utilized first. Construction of helispots will have minimum ground disturbance and not result in an unacceptable impact to the Wilderness.</li> <li>• Felling of snags should be restricted to the absolute minimum for containment and/or safety purposes.</li> <li>• After the fire is declared out, appropriate actions should be taken to rehabilitate and restore the site to a natural condition.</li> <li>• Where modified suppression practices have been used, care should be taken to ensure that the fire is completely out.</li> </ul>
ORWIF	IRA	06/17/2016	<p><b>INVENTORIED ROADLESS AREA</b></p> <p>Inventoried Roadless Area(s) have been identified within the planning area.</p> <p>As a reminder, on May 31, 2012, the Chief of the Forest Service reserved the authority to review all projects involving road construction or reconstruction and the cutting, sale, or removal of timber in Inventoried Roadless Areas (IRAs). The Chief delegated to Regional Foresters the authority to review <b><i>“Any necessary timber cutting or removal or any road construction or road reconstruction in emergency situations involving wildfire suppression, search and rescue operations, or other imminent threats to public health and safety in inventoried roadless areas.”</i></b></p> <p>In order to comply with the Chief’s direction, any forest that is considering timber cutting and/or road construction/reconstruction during emergency situations as described above should <b><i>contact the Regional Forester’s Office as soon as practical</i></b>. The Regional Forester will review the proposed emergency timber cutting and/or road construction/reconstruction activities with the appropriate line officer in accordance with the Chief’s delegation of authority.</p> <p>Reminder Issued 07/31/2014</p>
ORWIF	LSR North	04/14/2016	<p><b>Late Successional Reserves: NORTHWEST FOREST PLAN</b></p> <p>Plans for wildfire suppression will emphasize maintaining late successional habitat. During actual fire suppression activities, fire managers will consult with resource specialists familiar with the area. Until a fire management plan is completed for Late Successional Reserves, suppress all wildfire to avoid the loss of habitat in order to maintain future management options.</p> <p>In Late Successional Reserves, the goal of wildfire suppression is to limit the size of all fires. When planning is completed, some natural fires may be allowed to burn under prescribed conditions. Rapidly extinguishing smoldering coarse woody debris and duff should be considered to preserve these ecosystem elements.</p>
ORWIF	LSR South	04/14/2016	<p><b>Late Successional Reserves: NORTHWEST FOREST PLAN</b></p> <p>Plans for wildfire suppression will emphasize maintaining late successional habitat. During actual fire suppression activities, fire managers will consult with resource specialists familiar with the area. Until a fire management plan is completed for Late Successional Reserves, suppress all wildfire to avoid the loss of habitat in order to maintain future management options.</p> <p>In Late Successional Reserves, the goal of wildfire suppression is to limit the size of all fires. When planning is completed, some natural fires may be allowed to burn under prescribed conditions. Rapidly extinguishing smoldering coarse woody debris and duff should be considered to preserve these ecosystem elements.</p>

Unit	Shape/FMU	Activated	Management Requirement
ORWIF	NSO CHU North	04/14/2016	<b>Northern Spotted Owl Critical Habitat Unit (CHU)</b>  Use suppression methods and equipment that minimize disturbance to the land surface and vegetation. Fell snags and large old live trees only if they either are safety hazards or will hamper control efforts, resulting in further resource damage. Rehabilitate the fire area after suppression actions to return it to a natural condition consistent with Management Area objectives.
ORWIF	NSO CHU South	04/14/2016	<b>Northern Spotted Owl Critical Habitat Unit (CHU)</b>  Use suppression methods and equipment that minimize disturbance to the land surface and vegetation. Fell snags and large old live trees only if they either are safety hazards or will hamper control efforts, resulting in further resource damage. Rehabilitate the fire area after suppression actions to return it to a natural condition consistent with Management Area objectives.

## 1.8. Course of Action

### Strategy



Last updated by Kristi Bulock on 09/15/2018 21:15

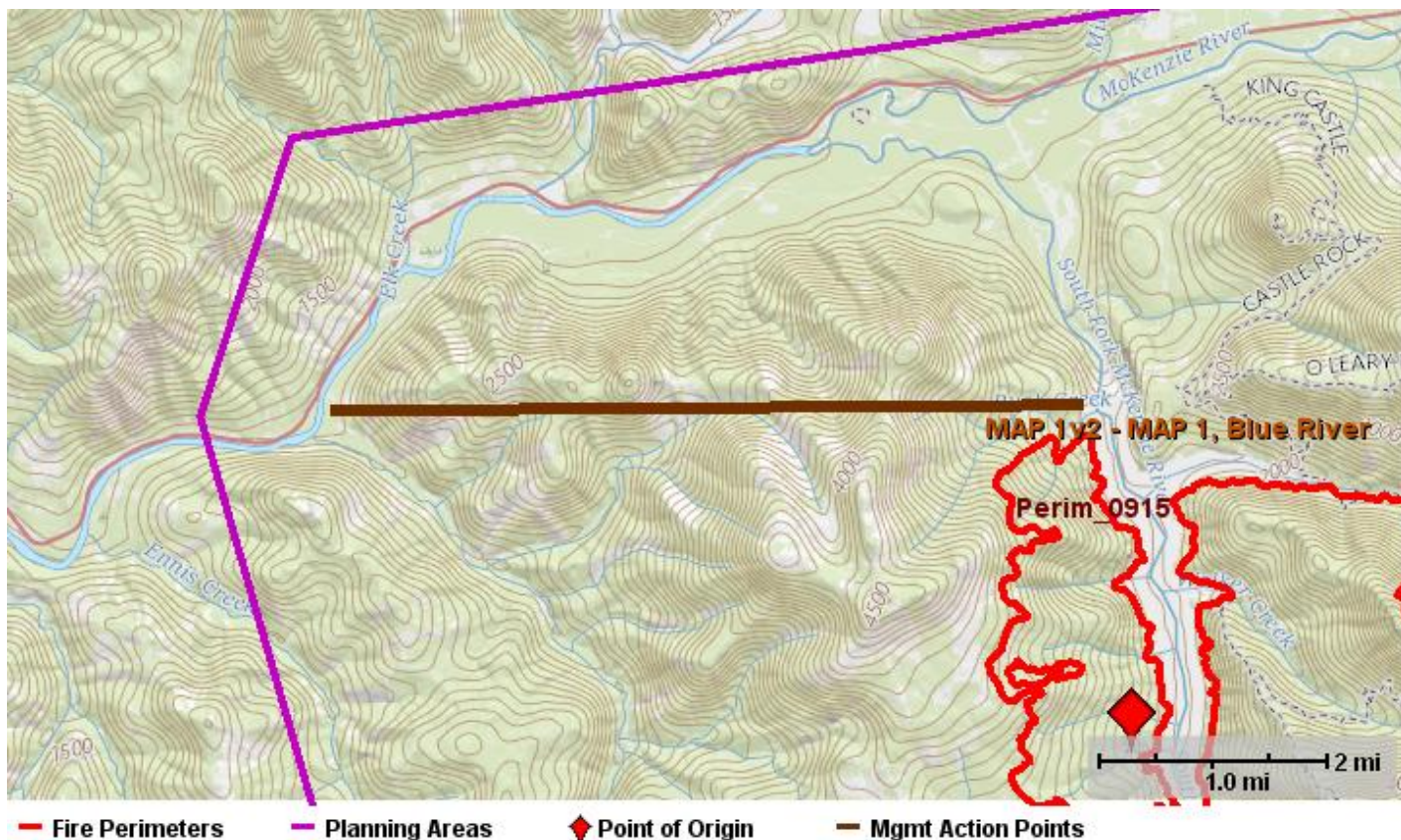
### Comments

Use a combination of direct attack, indirect attack, point protection, and natural features to limit fire spread. The specific strategy used will be dependent on firefighter and public safety, values at risk, and which methods will have the highest probability of success.

### Course of Action

Active	Inactive	Action Item
09/16/2018		To prevent the fire from spreading to private lands and surrounding communities, protect values at risk, and reduce overall firefighter exposure, use a combination of direct attack, indirect attack, and natural features to limit fire spread.
09/16/2018		Keep the fire: <ul style="list-style-type: none"><li>• Inside the current perimeter on the west and south side of Road 19 by reinforcing containment lines and mopping-up fire within containment lines.</li><li>• South of the East Fork of the South Fork of the McKenzie River corridor by using a combination of natural and existing fuel breaks, direct and indirect attack, and aerial water delivery.</li><li>• Within the Three Sisters Wilderness to the east by allowing natural fuel breaks and historical fire scars to limit fire spread.</li></ul>
09/16/2018		Continue to assess suppression repair needs and implement when safe and appropriate to do so.
09/16/2018		Minimize any damage or disruption to the USACE Cougar Dam or infrastructure including the electrical and telephone lines to/from the dam by communicating and coordinating all actions with the US Army Corp of Engineers local representative.

### Management Action Point 1v2



NAME	VALUE
Incident Name	Terwilliger
Cost	
Shape	MAP 1, Blue River
Activated	09/07/2018
Deactivated	

## Condition

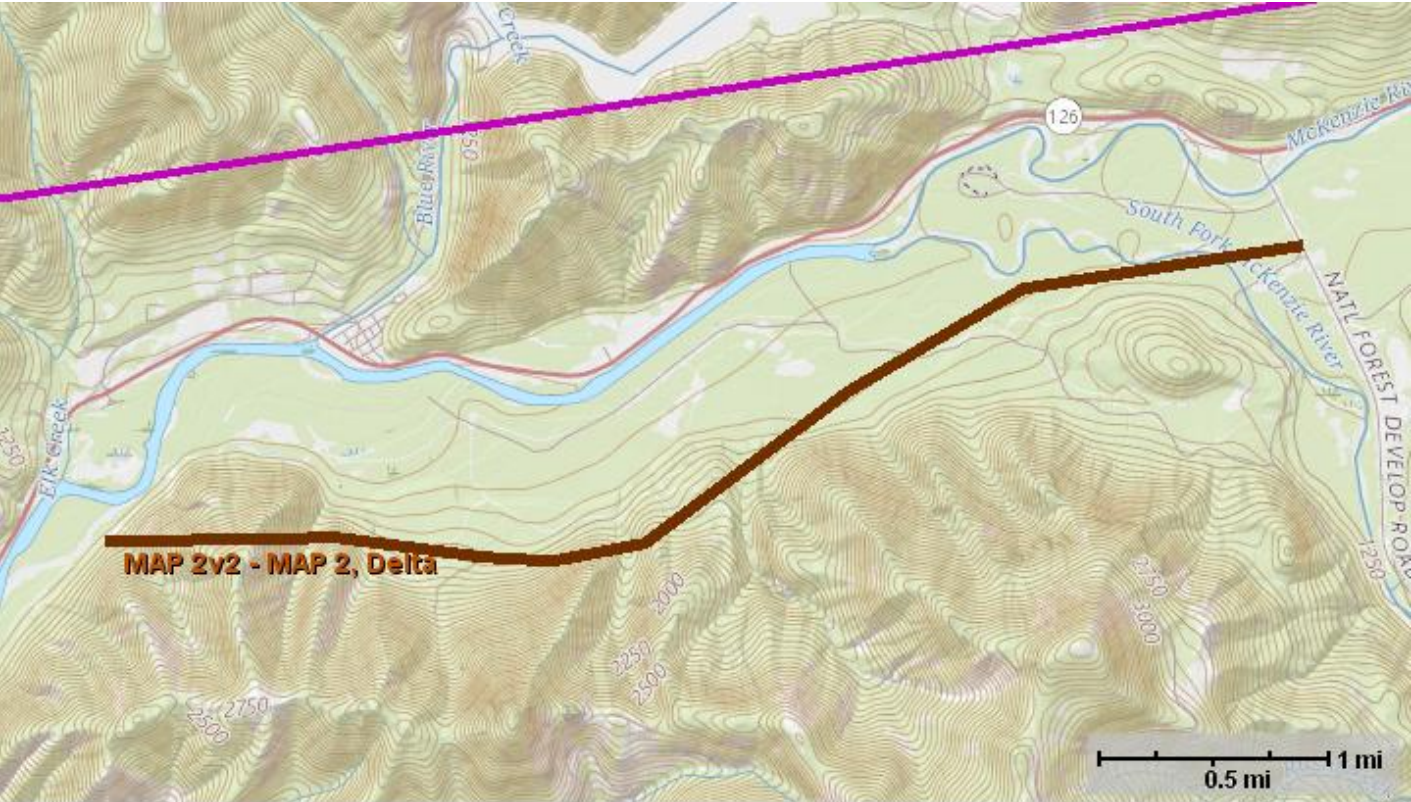
If the fire approaches or becomes established across this MAP and appears it will continue north toward Values at Risk along the Hwy 126 corridor

## Actions

- Consider issuing a "Set" evacuation notice for the residents in Evacuation Zone 2. (The IncidentCommander and Agency Administrators will have the final approval of all evacuations)
- Consider issuing a "Ready" evacuation notice for the residents in Evacuation Zones 1, 3, 4. (The IncidentCommander and Agency Administrators will have the final approval of all evacuations)
- Consider implementing a "Hard Closure" on Aufderheide Drive (Forest Road 19) at Hwy 126, and closures on all roads leading into the fire area. Coordinate with Forest Law Enforcement.
- Consider closure of all recreation sites along the McKenzie River in the Blue River area, coordinate with the Forest Recreation Specialist.
- Complete Structure Assessments and Structure Protection Plans for the affected areas.
- **All contacts will be made by the Incident Liaison unless otherwise noted**
- Contact the Lane County Sheriffs Office and Emergency Management.
- Contact ODOT about possible smoke issues in the Hwy 126 corridor.
- Contact Bonneville Power Administration about possible smoke impingement on the high-tension line and sub-station in the river corridor.
- Contact the community of Blue River about possible smoke issues.
- Notify the Upper McKenzie Fire Department on possible evacuations in their district.
- Work with the Upper McKenzie Fire Department to obtain supplemental resources that specialize in structure protection.

## Resources

Management Action Point 2v2



Fire Perimeters      Planning Areas      Mgmt Action Points

NAME	VALUE
Incident Name	Terwilliger
Cost	
Shape	MAP 2, Delta
Activated	09/07/2018
Deactivated	

Condition

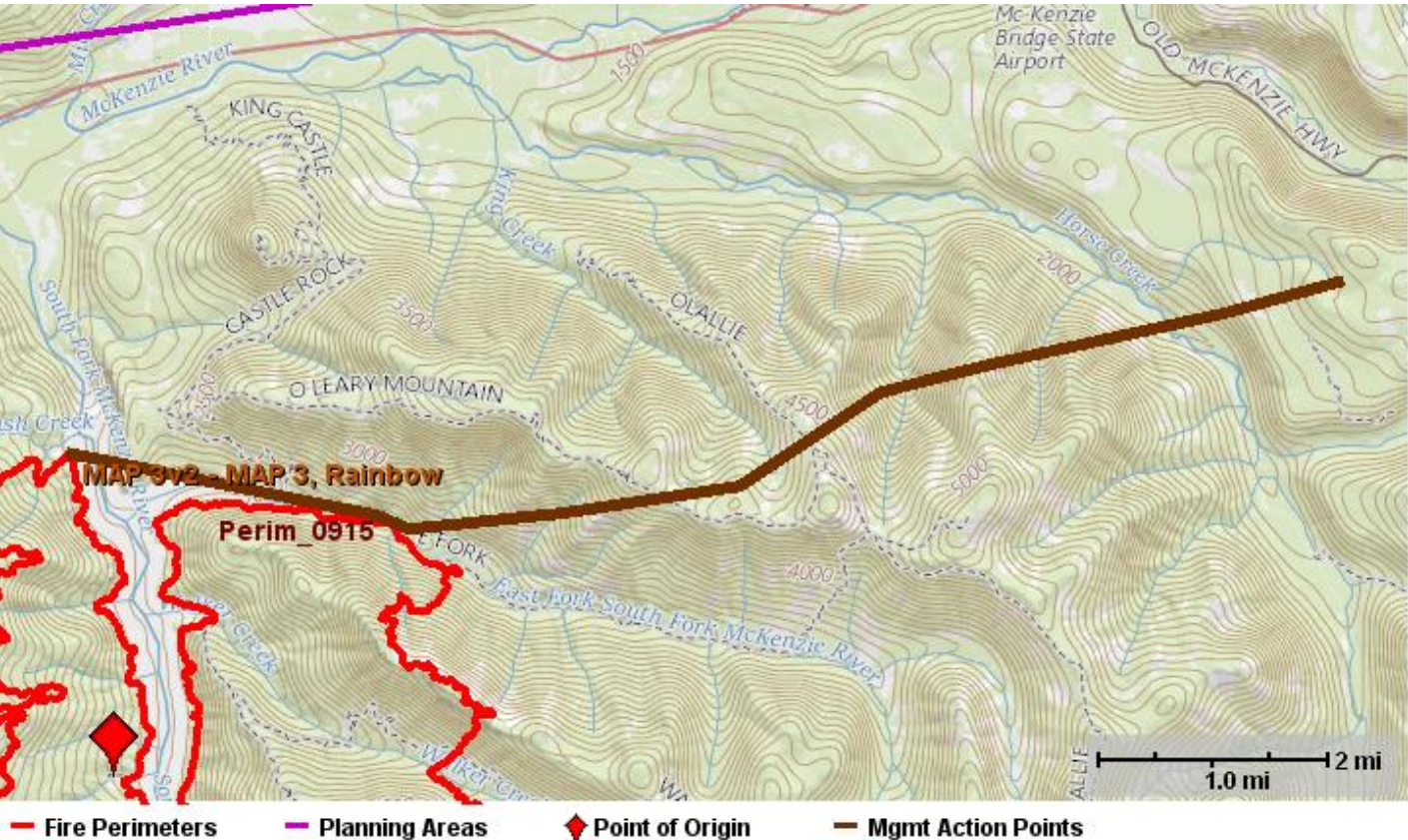
If the fire approaches or becomes established across this MAP and appears it will continue north toward Values at Risk along the Hwy 126 corridor

Actions

- Consider issuing a “Go” evacuation notice for the residents in Evacuation Zone 2. (The Incident Commander and Agency Administrators will have the final approval of all evacuations)
- Consider issuing a “Set” or possible “Go” evacuation notice for the residents in Evacuation Zones 1, 3, 4. This will depend on impacted location and fire behavior. (The Incident Commander and Agency Administrators will have the final approval of all evacuations)
- Consider closure of all recreation sites along the McKenzie River in the Blue River and Rainbow area, coordinate with the Forest Recreation Specialist.
- Consider closing or pilot car on Hwy 126 depending on fire behavior.
- Complete Structure Assessments and Structure Protection Plans for the affected areas.
- With the possible evacuation and road closure and increased complexity another Complexity Analysis should be completed.
- **All contacts will be made by the Incident Liaison unless otherwise noted**
- Contact the Lane County Sheriffs Office and Emergency Management.
- Contact ODOT about possible smoke issues in the Hwy 126 corridor.
- Contact Bonneville Power Administration about possible smoke/fire impingement on the high-tension line and sub-station in the river corridor.
- Contact the community of Blue River about possible smoke issues.
- Notify the Upper McKenzie Fire Department on possible evacuations in their district.
- Work with the Upper McKenzie Fire Department to obtain supplemental resources that specialize in structure protection.

Resources

Management Action Point 3v2



NAME	VALUE
Incident Name	Terwilliger
Cost	
Shape	MAP 3, Rainbow
Activated	09/07/2018
Deactivated	

Condition

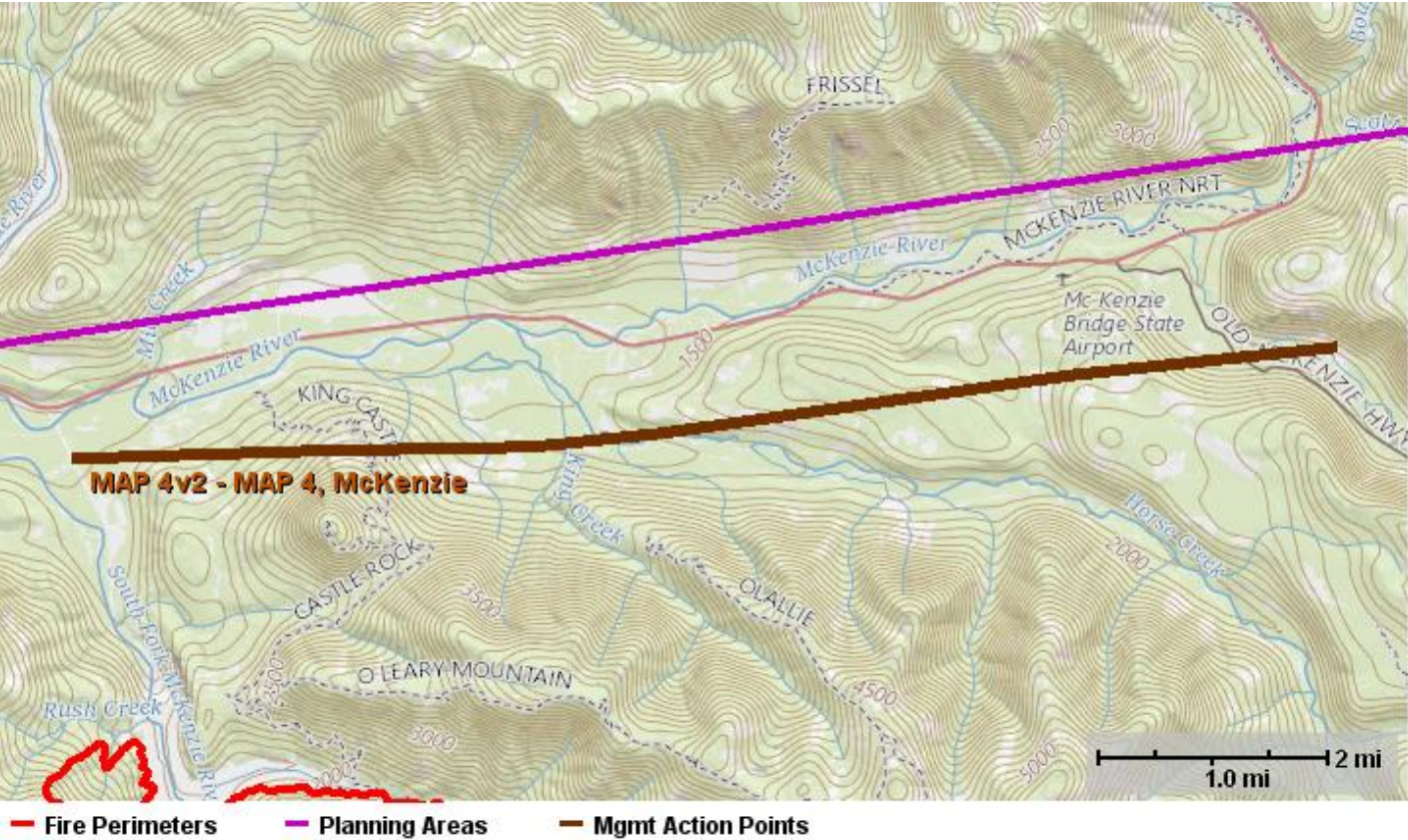
If the fire approaches or becomes established across the South Fork of the McKenzie River and it appears that the fire will continue to the north.

Actions

- Consider issuing a “Set” or possible “Go” evacuation notice for the residents in Evacuation Zones 4, 7. This will depend on impacted location and fire behavior. (The Incident Commander and Agency Administrators will have the final approval of all evacuations)
- Consider issuing a “Ready” evacuation notice for the residents in Evacuation Zones 3, 5, 6, 8, 9 and possibly Zone 2 if this has not been done. This will depend on impacted location and fire behavior. (The Incident Commander and Agency Administrators will have the final approval of all evacuations)
- Consider closure of all recreation sites along the McKenzie River in the McKenzie Bridge and Rainbow area, coordinate with the Forest Recreation Specialist.
- Complete Structure Assessments and Structure Protection Plans for the affected areas.
- Consider implementing or at least getting approval for the planned mechanical fireline between Rd 1930 in Section PB46 and private property in Section 23. This will involve the Regional Forester and may be time consuming.
- **All contacts will be made by the Incident Liaison unless otherwise noted**
- Contact the Lane County Sheriffs Office and Emergency Management.
- Contact ODOT about possible smoke issues in the Hwy 126 corridor.
- Contact Bonneville Power Administration about possible smoke impingement on the high-tension line and sub-station in the river corridor.
- Contact the communities of Rainbow and McKenzie Bridge about possible smoke issues.
- Notify the Upper McKenzie Fire Department on possible evacuations in their district.
- Work with the Upper McKenzie Fire Department to obtain supplemental resources that specialize in structure protection.

**Resources**

Management Action Point 4v2



NAME	VALUE
Incident Name	Terwilliger
Cost	
Shape	MAP 4, McKenzie
Activated	09/07/2018
Deactivated	

Condition

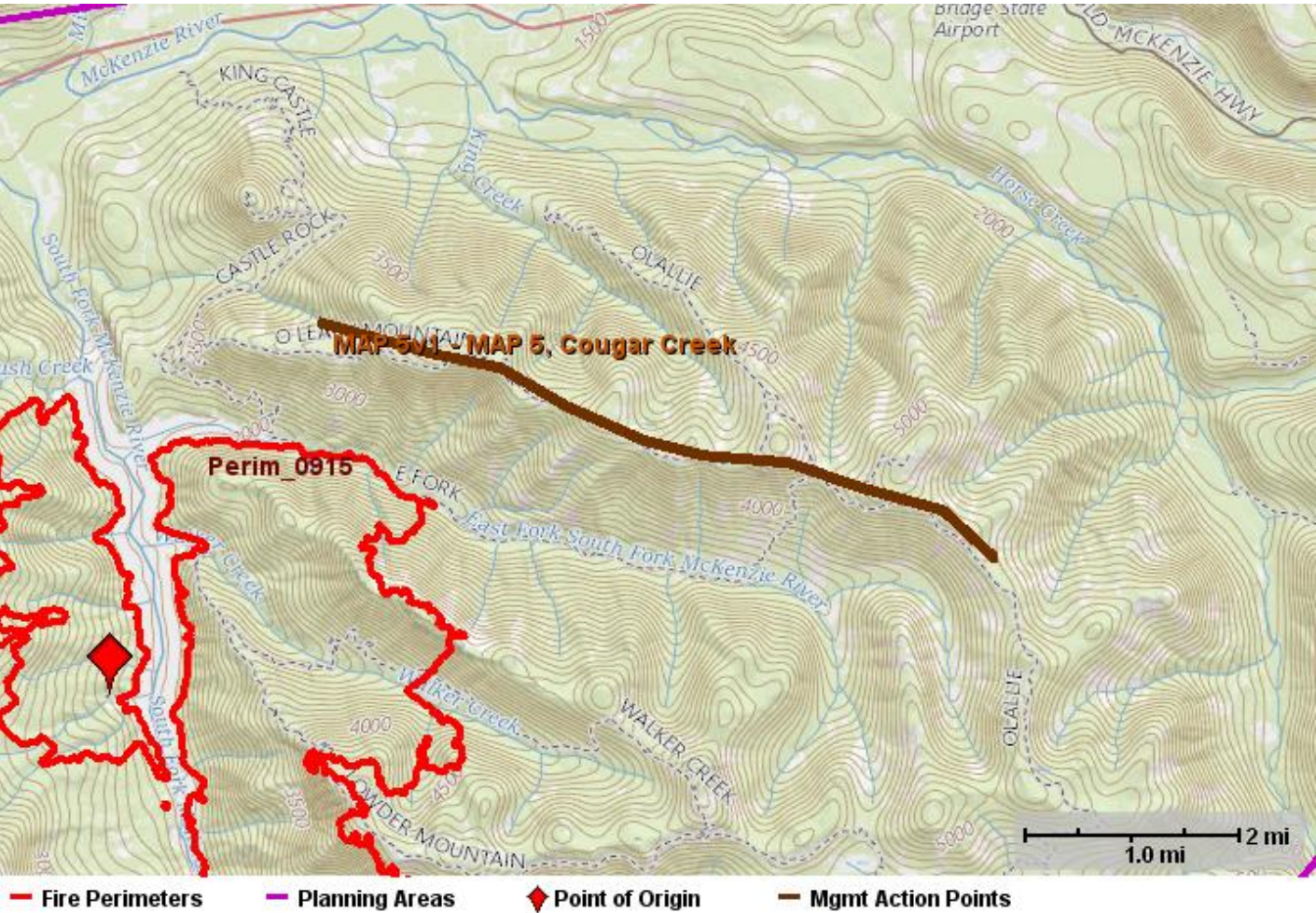
If the fire approaches or becomes established across this MAP and appears it will continue north toward Values at Risk along the Hwy 126 corridor

Actions

- Consider issuing a “Go” evacuation notice for the residents in Evacuation Zone 4, 7 and possibly Zone 2 if this has not been done. (The Incident Commander and Agency Administrators will have the final approval of all evacuations)
- Consider issuing a “Set” or possible “Go” evacuation notice for the residents in Evacuation Zones 3, 5, 6, 8, 9. This will depend on impacted location and fire behavior. (The Incident Commander and Agency Administrators will have the final approval of all evacuations)
- Consider closure of all recreation sites along the McKenzie River in the McKenzie Bridge and Rainbow area, coordinate with the Forest Recreation Specialist.
- Consider closing or pilot car on Hwy 126 depending on fire behavior.
- Complete Structure Assessments and Structure Protection Plans for the affected areas.
- With the possible evacuation and road closure and increased complexity another Complexity Analysis should be completed.
- **All contacts will be made by the Incident Liaison unless otherwise noted**
- Contact the Lane County Sheriffs Office and Emergency Management.
- Contact ODOT about possible smoke issues in the Hwy 126 corridor.
- Contact Bonneville Power Administration about possible smoke/fire impingement on the high-tension line and sub-station in the river corridor.
- Contact the community of Blue River about possible smoke issues.
- Notify the Upper McKenzie Fire Department on possible evacuations in their district.
- Work with the Upper McKenzie Fire Department to obtain supplemental resources that specialize in structure protection.

Resources

Management Action Point 5v1



NAME	VALUE
Incident Name	Terwilliger
Cost	
Shape	MAP 5, Cougar Creek
Activated	08/28/2018
Deactivated	

Condition

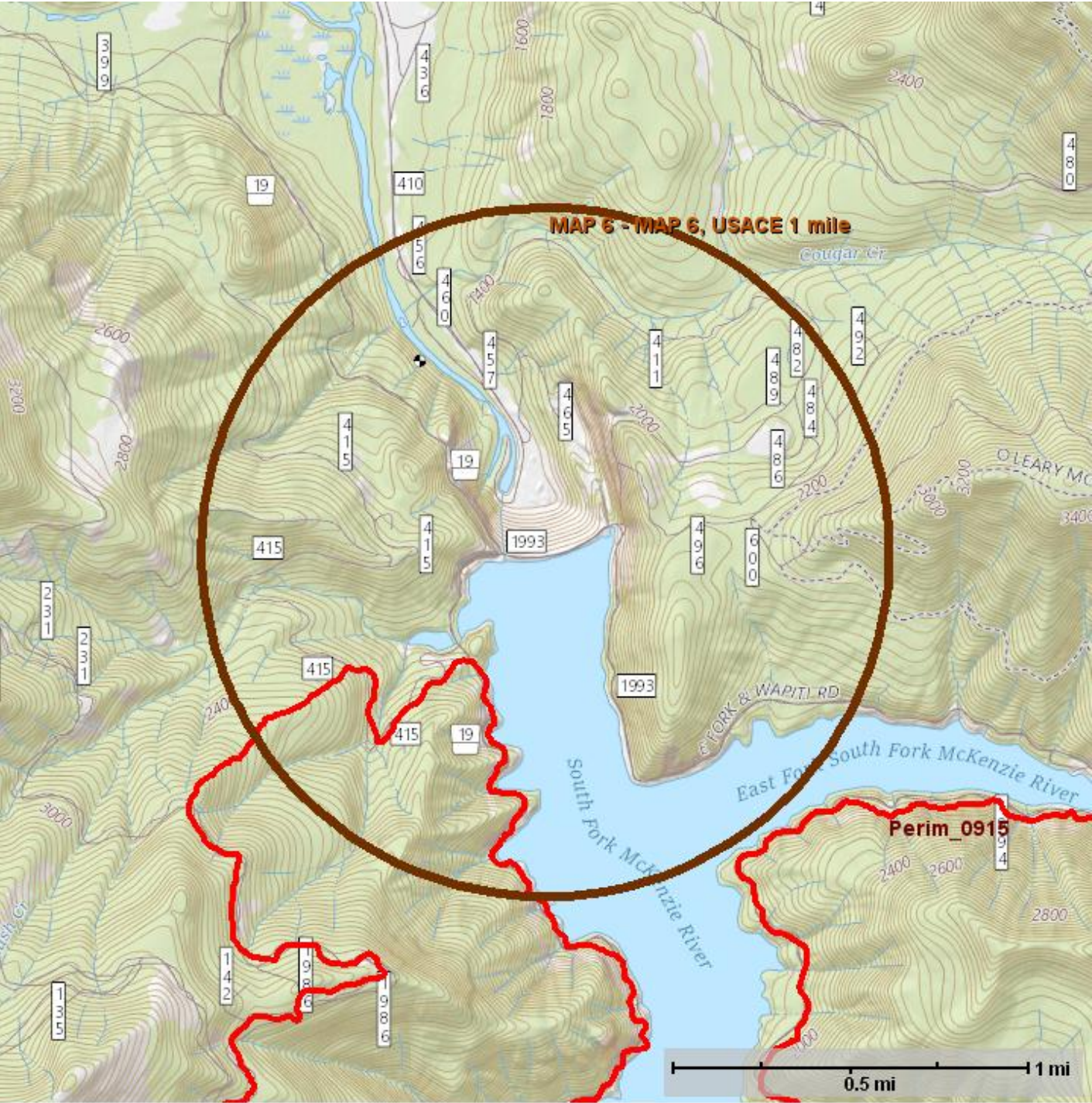
If the fire approaches or becomes established across the Cougar Creek drainage and it appears that the fire will continue to the north.

Actions

- Consider implementing the planned mechanical fireline between Rd 1930 in Section PB46 and private property in Section 23. This line will be through an Inventoried Roadless Area and will involve approval by the Regional Forester and may be time consuming.
- Once approval is granted this live will take 2-4 days to complete depending on available resources.

Resources

Management Action Point 6



— Fire Perimeters    — Planning Areas    — Mgmt Action Points

NAME	VALUE
Incident Name	Terwilliger
Cost	
Shape	MAP 6, USACE 1 mile
Activated	08/28/2018
Deactivated	

Condition

If the fire approaches or becomes established within one mile of Cougar Dam and appears it will be moving closer, possibly limiting access to Dam Operations.

**Description:** U.S. Army Corp of Engineers (USACE)

Cougar Dam works in coordination with Blue River Dam for the purpose of flood risk management. Cougar Dam's authorized primary purposes are flood risk management, hydropower, water quality improvement, irrigation, fish and wildlife habitat and recreation. The facility includes a fish ladder leading from the base of the dam to a fish collection and sorting area. From there, adult salmon, bull trout and other resident fish are loaded onto trucks and transported to release locations above Cougar Reservoir.

**Values:**

This facility has both electric and telephone lines running in from the north, the facility can operate for up to 48 hours stand-alone on generator power. There are also multiple structures below the dam. The powerhouse is the most important and has a sprinkler system that was installed by USACE.

## Actions

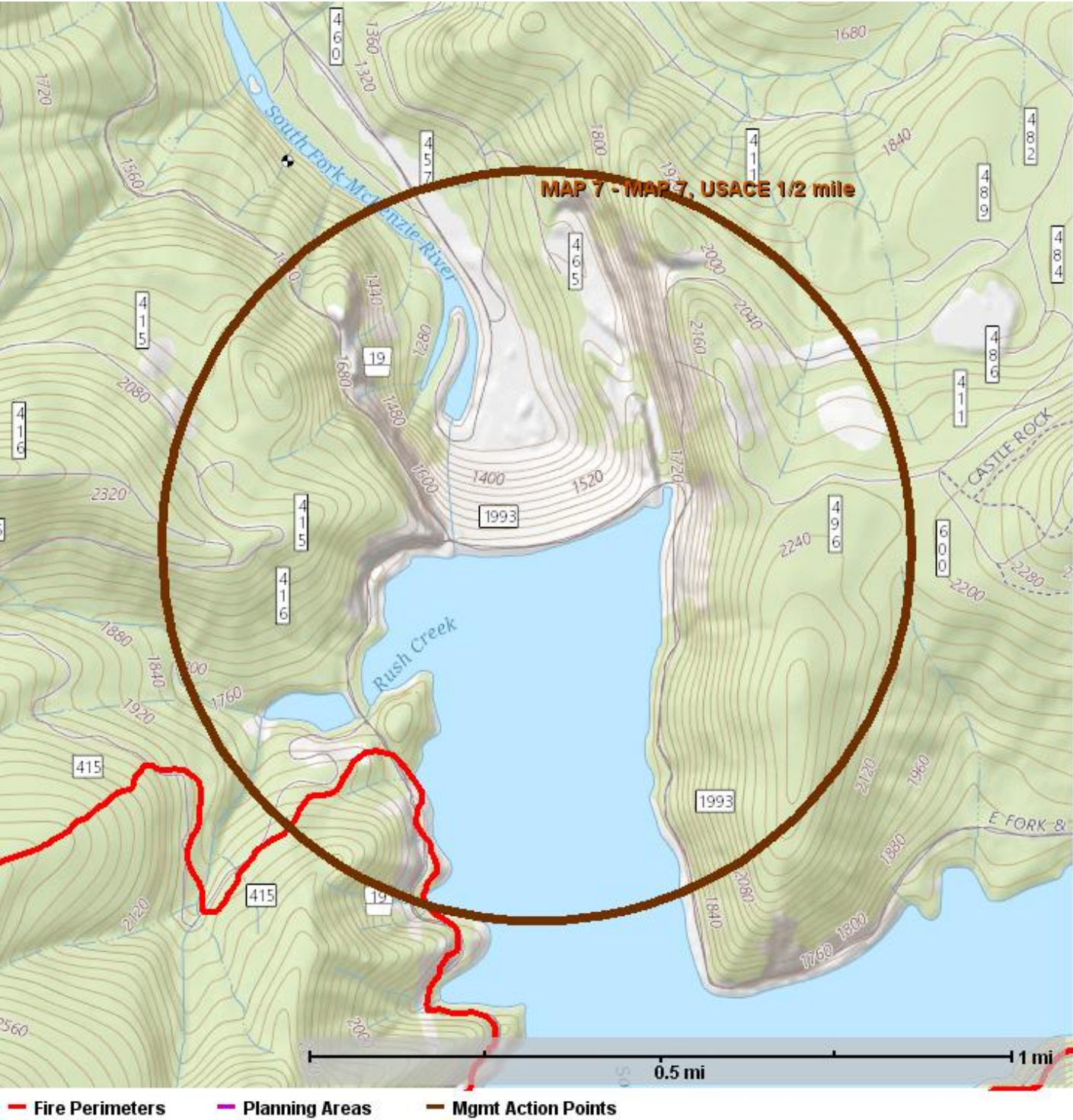
This MAP is for notification of the Cougar Dam operators.

Contact the Dam operators ASAP if this MAP is activated:

- Lookout Point Dam Operations (24hr) 541-349-3072
- Administrator – Wendy Jones 541-221-7694
- Biologist – Doug Garletts 541-315-1604
- Biologist – Ben Cram 541-554-8121

## Resources

Management Action Point 7



NAME	VALUE
Incident Name	Terwilliger
Cost	
Shape	MAP 7, USACE 1/2 mile
Activated	08/28/2018
Deactivated	

Condition

If the fire approaches or becomes established within one half mile of Cougar Dam and appears it will be moving closer, possibly limiting access to Dam Operations.

**Description:** U.S. Army Corp of Engineers (USACE)

Cougar Dam works in coordination with Blue River Dam for the purpose of flood risk management. Cougar Dam's authorized primary purposes are flood risk management, hydropower, water quality improvement, irrigation, fish and wildlife habitat and recreation. The facility includes a fish ladder leading from the base of the dam to a fish collection and sorting area. From there, adult salmon, bull trout and other resident fish are loaded onto trucks and transported to release locations above Cougar Reservoir.

**Values:**

This facility has both electric and telephone lines running in from the north, the facility can operate for up to 48 hours stand-alone on generator power. There are also multiple structures below the dam. The powerhouse is the most important and has a sprinkler system that was installed by USACE.

**Actions**

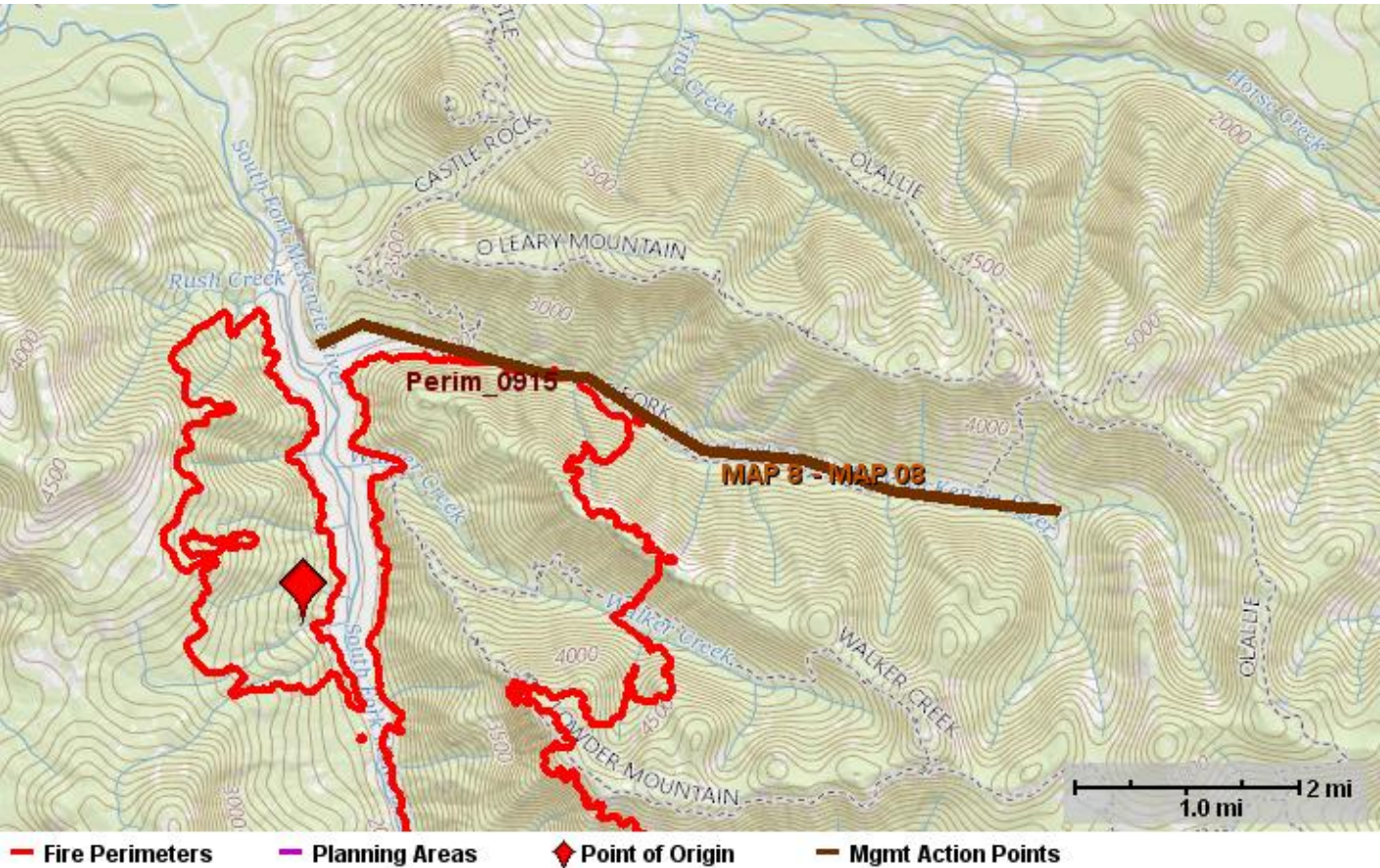
- Protect structures from any ember wash, they should not be a factor but should be watched.
- Minimize damage to both the electric and telephone lines to the facility
- USACE will be responsible for activating any on-site protection systems (sprinklers)
- A fuel truck will need access if the facility is operating on generator power
- Biologists will need intermittent access for the fish transportation effort
- If the facility needs shut down it will take 12-24 hours

Contact the Dam operators ASAP if this MAP is activated:

- Lookout Point Dam Operations (24hr) 541-349-3072
- Administrator – Wendy Jones 541-221-7694
- Biologist – Doug Garletts 541-315-1604
- Biologist – Ben Cram 541-554-8121

**Resources**

Management Action Point 8



NAME	VALUE
Incident Name	Terwilliger
Cost	
Shape	MAP 08
Activated	09/07/2018
Deactivated	

Condition

Fire becomes fully established to the north of the 1993 road and cannot be safely contained.

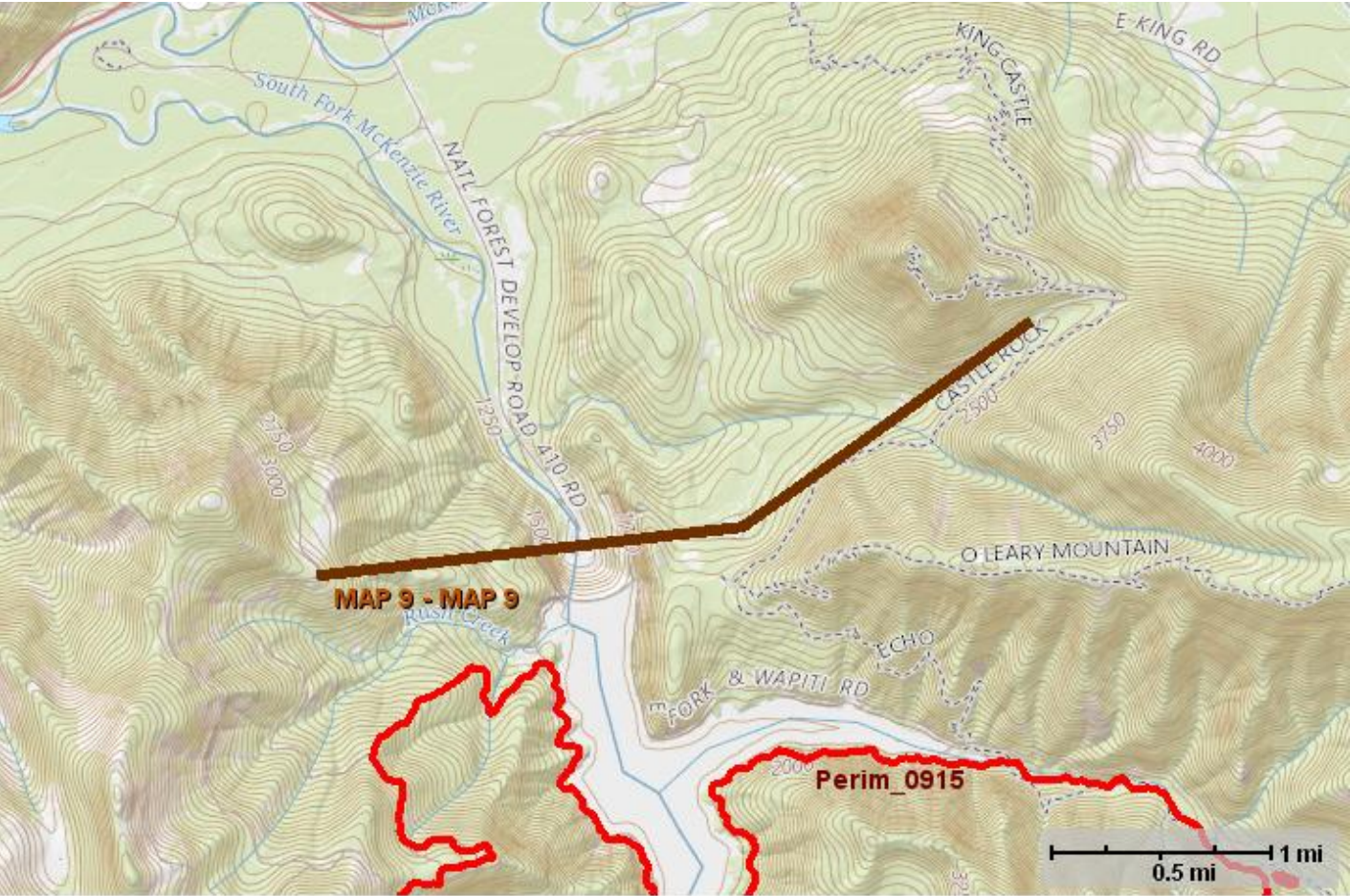
Actions

Consider ordering the resources needed to staff Division P to be able to implement the indirect fireline from the 1993/551 junction northeast to tie in to the Avenue fire of 2017.

Resources

3 TFLD, 2 type 1 crews, 4 type 2 IA crews, 4 type 4 engines, 4 type 6 engines, 4 skidgens.

Management Action Point 9



— Fire Perimeters    — Planning Areas    — Mgmt Action Points

NAME	VALUE
Incident Name	Terwilliger
Cost	
Shape	MAP 9
Activated	09/07/2018
Deactivated	

Condition

The fire crosses the MAP line that runs between H-55 and DP-75 and cannot be safely contained.

Actions

Consider moving Ground Support operation located at H-60 to a new location. The time frame from initial notification to Logistics section to full evacuation should occur in less than 12 hours but not more than 24 hours.

Resources

Logistics section will coordinate needs.

## 1.9. Cost

### Estimated Final Cost

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NAME	VALUE
Estimated Final Cost	\$40,000,000
Method(s) Used	Historic Costs

### Comments

Estimate based on historic costs as well as projected costs based on the first 2 weeks of the incident.

## 1.10. Rationale

### Terwilliger Rationale

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My decision is to utilize direct, indirect, and point protection methods to prevent fire spread to the west onto private timber lands and natural features to the east to keep the fire contained within the Three Sisters Wilderness.

The strategy will be to monitor the fire as it moves east into the Wilderness and attempt to use fire scars from 2017 and other existing breaks in fuel continuity as natural containment features. Suppression activities within the Wilderness would pose concerns with firefighter safety and may result in undesirable alterations of the landscape. Additional opportunities to limit fire spread to the north outside of the Wilderness exist by using the 1993 Road and other existing features further north. This strategy is expected to limit the burned area outside of the Wilderness, provide opportunities with a higher likelihood of success, and reduce the overall risk to firefighters.

The values of concern are private timber land to the west of the forest boundary, Cougar Dam hydroelectric facility, private property and infrastructure, USFS timber sale areas, natural and cultural resources, recreational facilities, threatened and endangered species, and Wilderness.

The cooperators involved in sharing this decision process are Oregon Department of Forestry, and Campbell Global timber.

The relative risk assessment and organization needs indicate transition from a Type 2 to a Type 3 Incident Management organization; expected firefighter exposure is moderate due to indirect tactics and the use of natural features to limit fire spread in the Wilderness.

The current fire landscape is continuous mature timber and it is dissected by a large reservoir. On the west, steep uphill slopes lead to private timber land where fuels transition to young timber. The east side is Wilderness leading to 2017 burn scars.

The following triggers would indicate revisions to this decision or that a new decision is needed:

- The general weather forecast, ERC table, and fire risk chart become invalid and a significant increase in fire behavior is predicted
- Fire becomes well established in the McKenzie River corridor or spreads onto private land
- Incident complexity changes enough to justify another level of management
- Estimated cost is overrun due to a long duration event